



No. 51

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UNITED STATES OF AMERICA

NOTICE TO MARINERS



Published Weekly by the
National Geospatial-Intelligence Agency

Prepared Jointly with the
National Ocean Service and U.S. Coast Guard

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Visit the Maritime Safety Information Division website at
<http://pollux.nss.nga.mil/>



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IMPORTANT INFORMATION

The Notice to Mariners is published by the National Geospatial-Intelligence Agency (NGA), under the authority of Department of Defense Directive 5105.40, to advise mariners of important matters affecting navigational safety, including new hydrographic discoveries, changes in channels and navigational aids, etc. (U.S. Code Title 10, Sec. 442 and Title 44, Sec. 1336 refer). Nothing in the arrangement of information implies endorsement or acceptance by NGA in matters affecting the status and boundaries of States and territories. The Notice to Mariners presents corrective information affecting charts, NGA Hydrographic Products Catalog, Coast Pilots, Sailing Directions, Fleet Guides, USCG Light Lists, NGA List of Lights, Radio Navigational Aids and other products produced by the National Geospatial-Intelligence Agency, National Ocean Service and U.S. Coast Guard.

Information for the Notice to Mariners is contributed by the following Agencies: National Geospatial-Intelligence Agency (NGA) (Department of Defense) for waters outside the territorial limits of the United States; National Ocean Service (NOS) (Department of Commerce), which is charged with the surveys and charting of the coasts and harbors of the United States and its territories; the U.S. Coast Guard (USCG) (Department of Homeland Security), which is responsible for the safety of life at sea and the establishment and operation of aids to navigation; and the U.S. Army Corps of Engineers (Department of Defense), which is charged with the improvement of rivers and harbors of the United States. In addition, important contributions are made by foreign hydrographic offices and cooperating observers of all nationalities.

For further information concerning NGA hydrographic products and services, including the Maritime Safety Information Website, users may contact:

<u>Name</u>	<u>Telephone</u>	<u>DSN</u>	<u>FAX</u>
Maritime Safety Information Division	301-227-5006	287-5006	301-227-5745
World-Wide Navigational Warning Service	301-227-3147	287-3147	301-227-3731
Fleet Liaison Officer	301-227-3120	287-3120	301-227-4211
Maritime Safety Information Website	301-227-3296	287-3296	301-227-4211
Notice to Mariners: Regions 1 and 2	301-227-3122	287-3122	301-227-3175
Notice to Mariners: Regions 3, 4, 5	301-227-3146	287-3146	301-227-3175
Notice to Mariners: Regions 6 thru 9	301-227-3146	287-3146	301-227-3175
Sailing Directions, Fleet Guides	301-227-3183	287-3183	301-227-3174
Navigation Science Publications	301-227-3120	287-3120	301-227-3731
Distribution Issues	301-227-7652	287-7652	301-227-4211

The Maritime Safety Information Website can be accessed directly at (<http://pollux.nss.nga.mil>). For your convenience NGA provides three e-mail addresses. For information affecting Notice to Mariners use NavNotices@nga.mil, for information affecting Sailing Directions and all other navigational publications use SDPUBS@nga.mil, for information concerning the Maritime Safety Information Website, use webmaster_nss@nga.mil.

Mariners are requested to notify NGA of discrepancies in charts and publications, using the Marine Information Report and Suggestion Sheet at the back of this Notice to Mariners. This form should also be used to report permanent changes, additions, or deletions from charted or published information. Reports which constitute an immediate hazard to navigation should be sent to the nearest NAVAREA Coordinator via coast radio stations. All reports are greatly appreciated. Marine Information Report and Suggestion sheets received during the past week were submitted by the following observers:

Observer	Ship/Organization
Dan Morson	M/V OVERSEAS HARRIETTE

Cover Photo: The **USNS GUADALUPE (T-AO 200)** is one of the Military Sealift Command's fourteen underway replenishment oilers and part of the 36 ships in the Naval Fleet Auxiliary Force (NFAF). NFAF ships are the lifeline to U.S. Navy ships at sea. By providing food, fuel, ammunition, spare parts and other supplies these ships enable our naval combatants to operate worldwide at the highest operational level possible. For years, the **GUADALUPE** has played a vital role in the re-supply of the Navy's Seventh Fleet ships operating in the Pacific. The **GUADALUPE** is 677 feet in length, has a beam of 97 feet, a draft of 35 feet and is crewed by civil service mariners. *Photo of USNS GUADALUPE courtesy of Military Sealift Command, Public Affairs Office.*

INFORMATION
OF
SPECIAL INTEREST
OR
IMPORTANCE
TO
MARINERS

NM 51/03

HYDROGRAM

**National Geospatial-Intelligence Agency
Bethesda, MD 20816-5003**

SPECIAL
ANNOUNCEMENTS

NEW PRODUCTS
OR SERVICES

IMPORTANT
CHANGES

20 December 2003

NEW EDITION OF SAILING DIRECTIONS

PUB. 145, SAILING DIRECTIONS (ENROUTE) NOVA SCOTIA AND THE SAINT LAWRENCE, NINTH EDITION, 2003, IS READY FOR ISSUE. THIS EDITION IS PRODUCED BY NGA IN DIGITAL FORMAT ONLY. SEE SECTIONS II AND III.

NEW EDITION OF COAST PILOT

U.S. COAST PILOT 5, ATLANTIC COAST: GULF OF MEXICO, PUERTO RICO AND VIRGIN ISLANDS, THIRTY-FIRST EDITION, 2004, IS READY FOR ISSUE. SEE SECTIONS II AND III.

EXPLANATION OF CONTENTS

The Notice to Mariners contains corrective information affecting nautical charts, the NGA Hydrographic Products Catalog, Coast Pilots, Sailing Directions, Fleet Guides, USCG Light Lists, NGA List of Lights, Radio Navigational Aids and other related nautical publications. The information contained in these corrections is important to safe navigation. It is the user's responsibility to decide which of their charts and publications require correction. Consult the U.S. Coast Guard Local Notice to Mariners for information pertaining to waterways within the United States that are not normally used by oceangoing vessels. Because of the sometimes transitory nature of aids to navigation, depths and port information, local area sources should be consulted whenever possible. This publication is not required to be maintained intact. Portions may be separated for correction or attachment to an affected product. The Notice to Mariners is divided into the following sections:

Section I-1 contains corrections to nautical charts listed in numeric order by chart number. Each chart correction listed applies only to that particular chart. Related charts, if any, will have their own specific correction listed separately. Users should also refer to U.S. Chart 1 Nautical Chart Symbols, Abbreviations and Terms for additional information pertaining to the correcting of charts. The illustration below describes the elements that comprise a typical chart correction:



A chart correction preceded by:

- ★ indicates that it is based upon original U.S. source information.
 - T indicates that it is temporary in nature.
 - P indicates that it is preliminary, and that permanent corrective action will appear in a future Notice to Mariners.
- The letter M immediately following the chart number indicates that the correction should be applied to the metric side of the chart only. The letter M is not a part of the chart number.
- The letter N preceding the current Notice to Mariners number indicates that the affected chart is on Limited Distribution and is normally only for use by U.S. Navy, government-owned or -chartered vessels.
- Courses and bearings are given in degrees true.
- Light sectors are expressed in degrees true from the vessel TOWARD the light.
- The visible range(s) listed for lights is normally the nominal range (the distance at which it can be seen in clear weather), expressed in nautical miles, except in the Great Lakes where it is expressed in statute miles.
- The colors of structures and lights of navigational aids are abbreviated in accordance with Chart 1.
- Section I-2*** contains all chartlets, depth tabulations and notes associated with the chart corrections in Section I-1. Chartlets and depth tabulations supersede all previous information portrayed.
- Section I-3** lists all NGA and NOS charts which have been affected by Notice to Mariners and the notice numbers which have affected them since the date of the oldest Summary of Corrections or the chart's announcement, whichever is later.

Section II-1 is a weekly listing of corrections to the NGA Hydrographic Products Catalog, including new charts and publications. It also contains the latest price category information.

Section II-2* contains corrections to navigation publications, including Sailing Directions, Coast Pilots, Fleet Guides, Radio Navigational Aids (Pub. 117), *The American Practical Navigator* and other related nautical publications.

Section II-3* lists weekly updates to the USCG Light Lists.

Section II-4* lists weekly updates to the NGA List of Lights.

Section II-5 lists all NGA, NOS and USCG navigation publications which have been affected by Notice to Mariners and the notice numbers which have affected them since the date of the publication's announcement.

Section III-1 lists the message number of all in-force Navigational Warnings, and the text of those warnings promulgated during the previous week. Notice to Mariners Nos. 13, 26 and 39 list a summary of all in-force Navigational Warnings for the preceding quarter. Notice to Mariners No. 52 lists a complete summary of all in-force Navigational Warnings.

Section III-2 contains miscellaneous information of particular interest to the maritime community.

*The left-hand pages of these sections are intentionally blank.

**SECTION I
CHART CORRECTIONS**

NM 51/03

1115A	Ed. 10/02 LAST NM 50/03 Substitute Platform [L10] for submerged well (cov 60fms) and buoy (See 50/03-1115A) (38/03 CG8)	51/03 29°16.0'N 88°22.8'W	Light "7" Fl G 2.5s 17ft 3M Ra ref 30°06'31.8"N 93°18'08.5"W Light Fl G (Priv) Light 2 Fl G (Priv) Light Fl G (Priv) (See 27/03-11347) (36, 38/03 CG8)
1116A	Ed. 6/03 LAST NM 50/03 Delete Platform Racon from platform	51/03 28°23.9'N 92°22.9'W 27°56.8'N 91°01.7'W	
	Substitute Wreck [K29] (PA) for dangerous wreck (PA) 28°45.2'N 89°48.6'W		
	Change Light "7" to Fl 6s 17ft 6M 29°18.6'N 89°51.4'W		
	Add Platform [L10] Submerged well (cov 28fms) [L20] (NOS; 37/03 CG8)	28°26.9'N 93°42.3'W 28°29.3'N 92°09.3'W	Designation of light "4" to "8" 30°06'27.3"N 93°17'59.3"W Designation of light "6" to "10" 30°06'30.4"N 93°17'39.7"W Designation of light "8" to "12" 30°06'28.9"N 93°17'25.4"W
1117A	Ed. 4/03 LAST NM 50/03 Delete Platform	51/03 27°54.5'N 96°19.7'W	Add Designation "5" to range light, front 30°06'28.3'N 93°18'18.5'W
	Submerged well (cov 21fms) and buoy (See 35/03-1117A) (37, 38/03 CG8)	28°14.4'N 95°28.6'W	Light "7" Fl G 2.5s 17ft 3M Ra ref 30°06'31.8"N 93°18'08.5"W Light Fl G (Priv) Light 2 Fl G (Priv) Light Fl G (Priv) (36, 38/03 CG8)
11004	7Ed. 10/29/94 LAST NM 44/03 Delete Platform Racon from platform	51/03 27°54.3'N 96°19.2'W 27°56.8'N 91°01.7'W	
	Add Platform [L10] (37/03 CG8; US CH 11300)	27°52.4'N 96°23.2'W	
★11300	39Ed. 4/03 LAST NM 50/03 Delete Platform	51/03 27°54.5'N 96°19.7'W	
	Submerged well (cov 21fms) and buoy (See 35/03-11300) (37, 38/03 CG8)	28°14.4'N 95°28.6'W	
★11323	60Ed. 9/03 LAST NM 49/03 Add Platform [L10] Depth 35 feet Wk [K26] (PA) (37/03 CG8)	51/03 29°00'50"N 94°45'06"W 29°16'14"N 94°29'49"W	
11330	15Ed. 10/03 LAST NM 50/03 Delete Legend "PA"	51/03 29°21.2'N 94°39.1'W	
	Substitute Depth 40 feet Obstn [K41] for 42 feet Obstn (NTM0002/2003)	29°27.2'N 93°04.6'W	Change Visibility (range) of light to 6M 29°18.6'N 89°51.4'W (37/03 CG8)
★11340	68Ed. 6/03 LAST NM 50/03 Delete Platform Racon from platform	51/03 28°23.9'N 92°22.9'W 27°56.8'N 91°01.7'W	
	Substitute Wreck [K29] (PA) for dangerous wreck (PA) 28°45.2'N 89°48.6'W		
	Change Light "7" to Fl 6s 17ft 6M 29°18.6'N 89°51.4'W		
	Add Platform [L10] Submerged well [L20] (cov 28fms) (NOS; 37/03 CG8)	28°26.9'N 93°42.3'W 28°29.3'N 92°09.3'W	
11347	33Ed. 7/02 LAST NM 50/03 (Side B) Delete Light (4 Fl G) Light (3 Fl G)	51/03 30°06'36.0'N 93°17'53.3'W 30°06'36.7'N 93°17'46.3'W	
	Change Designation of light "4" to "8" 30°06'27.3'N 93°17'59.3'W		
	Designation of light "6" to "10" 30°06'30.4'N 93°17'39.7'W		
	Designation of light "8" to "12" 30°06'28.9'N 93°17'25.4'W (See 25/03-11347)		
	Add Designation "5" to range light, front 30°06'28.3'N 93°18'18.8'W		
★11348	20Ed. 8/03 LAST NM 47/03 (Side A) Delete Light (4 Fl G) Light (3 Fl G)	51/03 30°06'36.0'N 93°17'53.3'W 30°06'36.7'N 93°17'46.3'W	
	Change Designation of light "4" to "8" 30°06'27.3'N 93°17'59.3'W		
	Designation of light "6" to "10" 30°06'30.4'N 93°17'39.7'W		
	Designation of light "8" to "12" 30°06'28.9'N 93°17'25.4'W		
★11351	38Ed. 3/03 LAST NM 50/03 Delete Platform Platform Platform Platform Platform (37/03 CG8)	51/03 29°15'28"N 91°25'31'W 29°15'12'N 91°25'22'W 29°15'48'N 91°24'30'W 29°15'18'N 91°23'40'W 29°15'19'N 91°22'57'W	
11352	36Ed. 11/02 LAST NM 48/03 Delete Danger circle "Obstn" (PA) (See 7/03-11352)	51/03 29°09.9'N 89°59.5'W	
	Change Visibility (range) of light to 6M 29°18.6'N 89°51.4'W (37/03 CG8)		
11354	24Ed. 4/03 LAST NM 48/03 (Side A) Delete Platform Platform Platform Platform Platform (37/03 CG8)	51/03 29°15'27'N 91°25'33'W 29°15'11'N 91°25'23'W 29°15'45'N 91°24'31'W 29°15'16'N 91°23'41'W 29°15'18'N 91°22'58'W	
★11356	35Ed. 7/03 LAST NM 38/03 Delete Platform Platform Platform Platform Platform Add Platform [L10] (37/03 CG8)	51/03 29°15'27'N 91°25'31'W 29°15'11'N 91°25'22'W 29°15'48'N 91°24'30'W 29°15'18'N 91°23'41'W 29°15'19'N 91°22'57'W 28°43'36" 91°01'18" W	
★11358	52Ed. 6/03 LAST NM 50/03 Delete Danger circle "Obstn...pipeline" (PA) (37/03 CG8)	51/03 29°09'57" 89°59'29" W	
	Light and sector limits 29°18'37" 89°51'18" W		
	Add Light Fl WR 6s 17ft 6M with sectors white 070°-340°, red-070° 29°18'38" 89°51'21" W (37/03 CG8)		
11360	40Ed. 10/02 LAST NM 50/03 Substitute Platform [L10] for submerged well (cov 60fms) and buoy (See 50/03-11360) (38/03 CG8)	51/03 29°16.0'N 88°22.8'W	

★11361	70Ed. 4/03 LAST NM 35/03 Change Legend to "5 FT CENTERLINE APR-SEP 2003" (See 31/03-11361) (NOS)	51/03 29°15'00"N 89°21'15"W	11375	35Ed. 8/02 LAST NM 47/03 Change Range light, front to Fl 2.5s 48ft (Day), Fl G 2.5s 45ft (Night), Fl 4s 15ft 6M (NOS)	51/03 30°20'08.5"N 88°30'45.6"W
11362	4Ed. 6/10/00 LAST NM N50/03 Substitute Platform [L10] for submerged well (cov 60fms) and buoy (See N50/03-11362) (38/03 CG8)	N51/03 29°16.0'N 88°22.8'W	★11389	32Ed. 10/13/01 LAST NM 42/03 Add Buoy (Priv) (37/03 CG8)	51/03 30°12'26"N 85°52'46"W
★11363	39Ed. 9/03 LAST NM 50/03 Add Stranded wreck [K24] (PA) Platform [L10] (37, 38/03 CG8)	51/03 29°45'36"N 88°47'00"W 29°44'41"N 88°48'08"W	11390	22Ed. 3/30/02 LAST NM 50/03 (Side B) Add Buoy (Priv) (37/03 CG8)	51/03 30°12'26"N 85°52'46"W
11364	39Ed. 11/02 LAST NM 50/03 Change Visibility (range) of light "2" to 5M (38/03 CG8)	51/03 29°57'26"N 90°01'35"W	11505	1Ed. 9/23/00 LAST NM 43/03 Add Tabulation of controlling depths from Subsection I-2 (NOS)	51/03
★11366	7Ed. 9/02 LAST NM 50/03 Delete Danger circle "Obstn" (PA) (See 7/03-11366)	51/03 29°09.9'N 89°59.5'W	★11506	40Ed. 1/03 LAST NM 43/03 Add Tabulation of controlling depths from Subsection I-2 (NOS)	51/03
	Substitute Wreck [K29] (PA) for dangerous wreck (PA)	28°45.2'N 89°48.6'W	★11512	59Ed. 1/03 LAST NM 43/03 Add Tabulation of controlling depths from Subsection I-2 (NOS)	51/03
	Platform [L10] for submerged well (cov 60fms) and buoy (See 50/03-11366)	29°16.0'N 88°22.8'W	11514	26Ed. 7/02 LAST NM 43/03 (Side A) Add Tabulation of controlling depths from Subsection I-2 (NOS)	51/03
	Change Visibility (range) of light to 6M	29°18.6'N 89°51.4'W	★11541	34Ed. 10/03 NEW EDITION (NOS)	51/03
	Add Stranded wreck [K24] (PA) (NOS; 37, 38/03 CG8)	29°45.6'N 88°47.0'W	★12222	44Ed. 5/03 LAST NM 41/03 Add Tabulation of controlling depths from Subsection I-2 (NOS)	51/03
11367	32Ed. 8/03 LAST NM 46/03 (Side B) Change Note to	51/03	★12277	32Ed. 7/03 LAST NM 35/03 Change Note to "SALEM RIVER The controlling depth at mean lower low water was 11 ½ feet for a width of 150 feet in the channel across Salem Cove. Aug 2003" 39°33'50"N 75°30'26"W (NOS)	51/03
	"NOTE MISSISSIPPI RIVER GULF OUTLET The controlling depths from the intersection with the G.I.W.W. to the Inner Harbor Navigation Canal are as follows: Left Quarter.....26 ft x 125 ft Middle Half.....28 ft x 250 ft Right Quarter.....29 ft x 125 ft Aug.-Sep. 2003" (Supersedes 45/03-11367)	29°58'14.0"N 89°59'07.0"W	★12311	42Ed. 8/03 LAST NM 48/03 Change Note to "SALEM RIVER The controlling depth at mean lower low water was 11 ½ feet for a width of 150 feet in the channel across Salem Cove. Aug 2003" 39°34'00"N 75°29'00"W Add Tabulation of controlling depths from Subsection I-2 (NOS)	51/03
	Visibility (range) of light "2" to 5M (NOS; 38/03 CG8)	29°57'26.1"N 90°01'35.3"W	12312	52Ed. 1/03 LAST NM 32/03 Add Tabulation of controlling depths from Subsection I-2 (NOS)	51/03
★11368	22Ed. 7/02 LAST NM 46/03 Change Visibility (range) of light "2" to 5M (See 35/03-11368)	51/03 29°57'26.1"N 90°01'35.3"W	★14832	34Ed. 10/02 LAST NM 49/03 Add Tabulation of controlling depths from Subsection I-2 (NOS)	51/03
	(Inset 1) Change Note to				
	"NOTE MISSISSIPPI RIVER GULF OUTLET The controlling depths from the intersection with the G.I.W.W. to the Inner Harbor Navigation Canal are as follows: Left Quarter.....26 ft x 125 ft Middle Half.....28 ft x 250 ft Right Quarter.....29 ft x 125 ft Aug.-Sep. 2003" (Supersedes 45/03-11368) (NOS; 38/03 CG8)	29°59'35"N 90°00'25"W			
11374	31Ed. 8/02 LAST NM 38/03 (Side B) Change Range light, front to Fl 2.5s 48ft (Day), Fl G 2.5s 45ft (Night), Fl 4s 15ft 6M (NOS)	51/03 30°20'08.5"N 88°30'45.6"W			

SECTION I

NM 51/03

★14833	25Ed. 5/24/97 LAST NM 49/03 Add Tabulation of controlling depths from Subsection I-2 (NOS)	51/03	★18581	17Ed. 9/02 LAST NM 36/03 Change Visibility (range) of light "4" to 3M 44°36'33.7"N 124°04'45.6"W (41/03 CG13)	51/03
★14839	36Ed. 12/02 LAST NM 49/03 Add Tabulation of controlling depths from Subsection I-2 (NOS)	51/03	22036	28Ed. 6/18/94 LAST NM 47/02 Add Platform "CARINA" [L2] (NTM0004/2003)	51/03 52°45.4'S 67°13.2'W
14842	13Ed. 7/03 LAST NM 46/03 (Page 26) Add Tabulation of controlling depths from Subsection I-2 (NOS)	51/03	22121	9Ed. 3/2/96 LAST NM 47/03 Add Light 2 FG (Plan) Change Characteristic of buoy "4" to Fl R 3s 4°34'16.2"S 81°16'53.2"W Characteristic of buoy "3" to Fl G 3s 4°34'10.8"S 81°16'47.0"W	51/03 4°35'33"S 81°17'19"W
★14843	22Ed. 6/6/92 LAST NM 43/03 Add Tabulation of controlling depths from Subsection I-2 (NOS)	51/03	Add Light FR 3M Range light, front FG 4°35'31.2"S 81°17'22.6"W Range light, rear FG 4°35'33.1"S 81°17'18.7"W	4°34'23.0"S 81°16'53.6"W	
14844	31Ed. 1/6/01 LAST NM 4/03 Add Tabulation of controlling depths from Subsection I-2 (NOS)	51/03		Range line extending in 295°40' direction from above rear light dashed for 800 meters, thence solid for 1,500 meters	
★14845	26Ed. 1/18/97 LAST NM 4/03 Add Tabulation of controlling depths from Subsection I-2 (NOS)	51/03		Legend "Lts in line 115°40'" along above range line (Peru CH 1126)	4°35'03.0"S 81°18'17.0"W
18440	26Ed. 12/02 LAST NM 47/03 Change Period of buoy "SG" to 2.5s Buoy to "T" Y, Fl Y 2.5s (41/03 CG13)	51/03 47°39'38"N 122°27'47"W 47°34'33"N 122°27'06"W	23000	5Ed. 9/13/97 LAST NM 18/02 Add Platform "CARINA" [L2] (NTM0004/2003)	51/03 52°45.4'S 67°13.2'W
18441	43Ed. 7/03 LAST NM 47/03 Change Period of buoy "SG" to 2.5s (41/03 CG13)	51/03 47°39'42"N 122°27'53"W	23145	3Ed. 5/3/97 LAST NM 37/03 Add Foul ground symbol [K31] (PA) (6(64)03 Montevideo)	51/03 36°00.0'S 56°35.2'W
18445	29Ed. 2/24/01 LAST NM 47/03 (Page A) Change Period of buoy "SG" to 2.5s Buoy to "T" Y, Fl Y 2.5s (41/03 CG13)	51/03 47°39'43"N 122°27'51"W 47°34'36"N 122°27'04"W	24050	11Ed. 10/18/97 LAST NM 33/03 Add Foul ground symbol [K31] (PA) Dangerous wreck [K28] marked by buoy "San Sebastian" BRB, pillar, double ball topmark, Fl(2) 8s (6(64), 9(92)03 Montevideo)	51/03 36°00.0'S 56°35.2'W 35°21.7'S 57°05.7'W
18446	16Ed. 8/03 LAST NM 47/03 Change Period of buoy "SG" to 2.5s (41/03 CG13)	51/03 47°39'41"N 122°27'52"W	24055	6Ed. 10/4/97 LAST NM 50/03 Add Dangerous wreck [K28] marked by buoy "San Sebastian" BRB, pillar, double ball topmark, Fl(2) 8s (9(92)03 Montevideo)	51/03 35°21'41"S 57°05'41"W
18448	32Ed. 8/25/01 LAST NM 45/03 Change Buoy to "T" Y, Fl Y 2.5s (41/03 CG13)	51/03 47°34'35"N 122°27'05"W	37005	16Ed. 8/2/97 LAST NM 30/03 Add Depth 26 meters Well [L21.2] (45(4921)03 Taunton)	51/03 53°40.8'N 1°55.9'E
★18449	18Ed. 10/03 LAST NM 50/03 Change Period of buoy "SG" to 2.5s Buoy to "T" Y, Fl Y 2.5s (41/03 CG13)	51/03 47°39'41"N 122°27'52"W 47°34'33"N 122°27'05"W	37010	23Ed. 9/7/96 LAST NM 43/03 Add Depth 26 meters Well [L21.2] (45(4921)03 Taunton)	51/03 53°40.8'N 1°55.9'E
18473	7Ed. 12/02 LAST NM 47/03 Change Period of buoy "SG" to 2.5s (41/03 CG13)	51/03 47°39'42"N 122°27'53"W	37148	13Ed. 4/26/97 LAST NM 27/03 Substitute Depth 15.8 meters Wk [K26] for 13.5 meters Wk (See 20/99-37148) (44(4763)03 Taunton)	51/03 51°52'01"N 1°38'06"E
18474	7Ed. 8/02 LAST NM 45/03 Change Period of buoy "SG" to 2.5s Buoy to "T" Y, Fl Y 2.5s (41/03 CG13)	51/03 47°39'42"N 122°27'53"W 47°34'33"N 122°27'05"W	37166	2Ed. 7/13/96 LAST NM 46/03 Add Depth 26 meters Well [L21.2] (45(4921)03 Taunton)	51/03 53°40.8'N 1°55.9'E
18561	11Ed. 6/13/98 LAST NM 10/03 Change Light to "4" Fl R 2.5s 20ft 3M (41/03 CG13)	51/03 44°36'34"N 124°04'46"W	37175	2Ed. 3/22/97 LAST NM 46/03 Add Depth 26 meters Well [L21.2] (45(4921)03 Taunton)	51/03 53°40.8'N 1°55.9'E
18580	21Ed. 9/15/01 LAST NM 39/02 Change Light to "4" Fl R 2.5s 20ft 3M (41/03 CG13)	51/03 44°36.6'N 124°04.8'W			

37221	13Ed. 2/3/96 LAST NM 50/03 Substitute Swept depth 4 meters Wk [K27] for stranded wreck (38(44)03 Hamburg)	51/03 53°59.5'N 8°36.6'E	44179	2Ed. 5/25/96 LAST NM 39/03 Add Depth 2 meters Rk [K14.2] (43(781)01 Norrkoping)	51/03 59°07'04"N 18°26'32"E
37226	17Ed. 12/27/97 LAST NM 23/03 Substitute Swept depth 4 meters Wk [K27] for stranded wreck Add Drying height [I15] 0.3 meter (38(44)03 Hamburg)	51/03 53°59'30"N 8°36'34"E 54°01'21"N 8°45'21"E	44320	4Ed. 9/21/96 LAST NM 50/03 Delete Depth 3.6 meters Wk Depth 10 meters Wk Dangerous wreck Dangerous wreck Dangerous wreck Dangerous wreck Dangerous wreck Wreck Add Depth 9.3 meters Wk [K26] (3(24-30)03 Tallinn)	51/03 59°03.3'N 23°22.1'E 59°00.9'N 23°05.6'E 59°05.5'N 23°04.4'E 59°05.3'N 23°06.4'E 59°04.5'N 23°04.3'E 58°49.6'N 23°10.2'E 58°48.9'N 23°09.1'E 59°01.0'N 23°05.9'E
43285	5Ed. 9/11/93 LAST NM 49/03 Delete Beacon Light Change Height of light to 56m Visibility (range) of light to 8-5M Visibility (range) of light to 6-4M Sector of light between 173° and 188°30' green 180°-188°30' Note: Remaining sectors unchanged Visibility (range) of light to 11-8M Light to Iso WRG 6m 6-4M Note: Sectors remain unchanged (BA LL)	51/03 61°35'53"N 4°58'08"E 61°37'46"N 5°03'30"E 61°34'16"N 4°40'55"E 61°34'33"N 4°41'24"E 61°35'00"N 4°47'06"E 61°37'42"N 4°59'33"E 61°36'57"N 4°52'15"E	44400	4Ed. 9/7/96 LAST NM 50/03 Delete Buoy Depth 3.6 meters Wk Depth 10 meters Wk Dangerous wreck Dangerous wreck Dangerous wreck Dangerous wreck Dangerous wreck Dangerous wreck Wreck Dangerous wreck Dangerous wreck Dangerous wreck Dangerous wreck (See 19/03-44400) Add Depth 9.3 meters Wk [K26] Depth 7.8 meters Wk [K26] Depth 21.9 meters Wk [K26] Depth 9.5 meters Wk [K26] Depth 2.8 meters Wk [K26] (3(24-34), 9(118)03 Tallinn)	51/03 58°41.4'N 22°31.2'E 59°03.3'N 23°22.1'E 59°00.9'N 23°05.6'E 59°05.5'N 23°04.4'E 59°05.3'N 23°06.4'E 59°04.5'N 23°04.3'E 58°49.6'N 23°10.2'E 58°48.9'N 23°09.1'E 58°04.0'N 24°03.2'E 57°58.1'N 23°54.9'E 58°07.3'N 24°13.5'E 59°01.0'N 23°05.9'E
43300	5Ed. 7/20/96 LAST NM 49/03 Change Visibility (range) of light to 8-5M (BA LL)	51/03 61°34.6'N 4°41.5'E	43375	7Ed. 8/22/92 LAST NM 50/03 Add Submarine pipeline [L40.1] joining	51/03 58°38'55"N 11°17'25"E 58°38'42"N 11°16'46"E 58°38'25"N 11°16'26"E 58°38'06"N 11°16'09"E 58°37'46"N 11°16'00"E 58°37'22"N 11°15'38"E 58°37'05"N 11°15'32"E 58°36'27"N 11°15'29"E 58°36'15"N 11°15'32"E 58°36'07"N 11°15'52"E 58°36'01"N 11°16'52"E (28(378)02 Norrkoping)
43385	1Ed. 8/22/92 LAST NM 50/03 Add Submarine pipeline [L40.1] between	51/03 58°06'22"N 11°29'42"E 58°06'25"N 11°30'11"E Solid line (breakwater) [F4.1] joining	54140	7Ed. 9/5/92 LAST NM 47/03 Add Beacon G, Fl(2) G 5s 8m 5M (7(1)03 Split)	51/03 44°47.4'N 13°56.6'E
44068	11Ed. 5/18/96 LAST NM 40/03 Delete Range lights (2), range line and legend "Lights in line 251°" between	51/03 55°10.3'N 12°06.2'E 55°12.5'N 12°17.4'E Range lights (2), range line and legend "Lights in line 182°" between	54180	6Ed. 9/26/92 LAST NM 47/03 Add Beacon G, Fl(2) G 5s 8m 5M (7(1)03 Split)	51/03 44°47.4'N 13°56.6'E
44085	2Ed. 4/4/98 LAST NM 25/02 Delete Light and sector limits	51/03 54°11'24"N 13°46'12"E	54195	2Ed. 11/5/94 LAST NM 5/03 (Plan) Add Light Fl(2) G 5s 6m 4M (5(3)03 Split; BA LL)	51/03 43°45'08.0"N 15°44'48.8"E
44100	7Ed. 3/9/96 LAST NM 49/03 Delete Range lights (2) in vicinity Range lights (2) in vicinity (38(251)03 Kopenhagen)	51/03 55°10.3'N 12°06.2'E 55°07.5'N 12°07.5'E (38(251)03 Kopenhagen)	54462	5Ed. 3/30/96 LAST NM 17/03 Add Danger circle "Obstn (Marine farm)" [K46.1] (43(3977)99 Taunton)	51/03 34°56'46"N 33°54'19"E
44173	2Ed. 5/4/96 LAST NM 14/02 Delete Depth 5.4 meters	51/03 2°52'22.0"N 101°16'08.0"E	55047	8Ed. 9/16/00 LAST NM 49/03 Change Light to Fl(3) G 10s 13m 10M (28(128)03 Istanbul)	51/03 41°01'43.0"N 28°59'19.0"E
55110	2Ed. 8/31/96 LAST NM 44/03 Change Period of light to 15s (27(120)03 Istanbul)	51/03 41°53.2'N 28°03.4'E	55127	2Ed. 4/20/96 LAST NM 36/03 Delete Range lights (2), range line and legend "Lights in line 338°30'" between	51/03 47°06'17.0"N 37°33'51.0"E 47°01'01.0"N 37°36'54.0"E (45(4920)03 Taunton)
55190	2Ed. 10/5/96 LAST NM 40/03 Delete Dashed line and legend "158°30'-338°30'" between	51/03 47°04.0'N 37°35.2'E 46°58.2'N 37°38.6'E (45(4920)03 Taunton)	71273	2Ed. 5/4/96 LAST NM 14/02 (Panel B) Delete Depth 5.4 meters	51/03 (continued on next page)

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NM 51/03

71273 (Continued)				
Substitute Depth 4.7 meters for 5.4 meters	2°52'17.0"N 101°16'15.6"E		Depth 12 meters	42°44'25.0"N 133°04'23.3"E
Add Depth 4.8 meters	2°52'24.1"N 101°16'12.1"E		Depth 11.4 meters	42°44'20.6"N 133°04'29.6"E
Depth 4.2 meters	2°52'26.9"N 101°16'05.9"E		(21(3381), 22(3489)03 St. Petersburg)	
Depth 1.7 meters	2°53'02.3"N 101°16'01.0"E			
Depth 12 meters	2°50'58.3"N 101°16'02.7"E			
(32(2990)99 Taunton)				
76070 9Ed. 6/22/96 LAST NM 47/03		51/03		
Change Visibility (range) of light to 19M	41°43.8"S 174°16.5"E			
(NTM0031/2003)				
★93734 12Ed. 9/6/03 NEW EDITION		51/03		
Change Light to Al Fl WRW 10s 28m	11/8M			
	22°12'50.8"N 114°11'06.5"E			
(Previously published 40/03)				
Add Depth 15.8 meters Wk [K26]	22°10'58.0"N 114°09'00.0"E			
Depth 37 meters	22°09'46.2"N 114°14'34.2"E			
	Depth 28.5 meters enclosed by			
	depth contour (30-meter)			
(NGA)	22°10'38.3"N 114°13'34.5"E			
(Previously published 40/03)				
94028 7Ed. 9/16/95 LAST NM 40/03		51/03		
Add Dangerous wreck [K28]				
(45(823)03 Inchon)	34°15.9"N 127°37.2"E			
94040 13Ed. 10/4/97 LAST NM 43/03		51/03		
Add Wreck [K29]				
(64/03 Tso-ying)	22°10.8"N 119°34.8"E			
94080 7Ed. 9/23/95 LAST NM 32/03		51/03		
Add Wreck [K29]	22°27.1"N 119°48.7"E			
Wreck [K29]	22°10.8"N 119°34.8"E			
Wreck [K29]	21°50.7"N 119°42.0"E			
(63, 64, 66/03 Tso-ying)				
94082 8Ed. 2/26/00 LAST NM 22/03		51/03		
Add Dangerous wreck [K28]				
(59/03 Tso-ying)	22°50'00"N 120°11'00"E			
95140 15Ed. 10/7/95 LAST NM 37/03		51/03		
Add Dangerous wreck [K28]				
(45(823)03 Inchon)	34°15'54"N 127°37'12"E			
95141 8Ed. 8/5/95 LAST NM 37/03		51/03		
Add Dangerous wreck [K28]				
(45(823)03 Inchon)	34°15'54"N 127°37'12"E			
96016 7Ed. 4/20/91 LAST NM 12/02		51/03		
Add Light Fl				
(38(3513)99 Taunton)	52°21.5"N 143°11.4"E			
96028 5Ed. 8/13/94 LAST NM 8/02		51/03		
Delete Depth 27 meters Wk	52°28.9"N 156°02.3"E			
Depth 25 meters Wk	52°46.6"N 155°56.4"E			
Add Depth 28 meters Obstn [K41]				
(38(3515)99 Taunton)	53°10.4"N 155°51.8"E			
96032 3Ed. 8/5/95 LAST NM 34/03		51/03		
Add Light symbol				
(38(3516)99 Taunton)	59°54.3"N 166°23.9"E			
96044 10Ed. 7/3/93 LAST NM 38/03		51/03		
Delete Depth 16.6 meters	42°45'10.0"N 133°03'02.5"E			
Depth 12.6 meters	42°44'18.5"N 133°04'29.5"E			
Substitute Depth 16.9 meters for 13.6 meters				
	42°45'10.2"N 133°03'08.1"E			
Add Depth 16 meters	42°45'11.3"N 133°03'00.5"E			
Depth 17.4 meters	42°45'06.0"N 133°03'16.9"E			
Depth 13.9 meters	42°44'34.8"N 133°04'15.0"E			
Depth 13.6 meters	42°44'26.4"N 133°04'38.1"E			
Depth 12.6 meters	42°44'28.5"N 133°04'23.4"E			

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NM 51/03

Chart 11505

NM 51/03

SAVANNAH RIVER CHANNEL DEPTHS						
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2003						
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	
TYBEE RANGE	43.0	42.0	43.5	43.0	10-03	600 3.3 44
BLOODY POINT RANGE	43.0	43.0	43.0	43.0	10-03	600 3.0 44
JONES ISLAND RANGE	44.0	42.0	43.0	44.0	10-03	600 1.2 44
TYBEE KNOT CUT RANGE	43.0	43.0	43.0	44.0	10-03	500 2.5 42

NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.
 NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.
 NOTE: CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11506

NM 51/03

BRUNSWICK HARBOR CHANNEL DEPTHS						
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF SEP 2003						
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY		WIDTH (FEET) LENGTH (NAUT. MILES) DEPTH (FEET)
BAR CHANNEL (ST SIMON RANGE)	34.0	35.5	A30.0	09-03		500 7.7 32
PLANTATION CREEK RANGE	38.0	41.0	41.0	09-03		400 1.8 32
JEKYLL ISLAND RANGE	30.0	32.0	32.0	09-03		400 1.9 30
CEDAR HAMMOCK RANGE	30.0	30.5	28.5	09-03		400 1.4 30
BRUNSWICK PT CUT RANGE	28.0	29.0	29.0	09-03		400 2.4 30
EAST RIVER						
LOWER REACH	B32.0	32.0	30.0	09-03		400 1.1 30
UPPER REACH	26.0	27.0	25.0	09-03		350 1.0 27
EAST RIVER TURNING BASIN	27.0	27.0	27.0	09-03		750 0.2 30
TURTLE RIVER LOWER RANGE	35.0	29.0	30.0	09-03		300 1.7 30
BLYTHE ISLAND RANGE	31.0	27.0	25.0	09-03		300 1.5 30
TURTLE RIVER UPPER RANGE	28.0	27.5	26.0	09-03		300 1.7 30
SOUTH BRUNSWICK RIVER	31.0	31.0	32.0	09-03		400 1.3 30

A. OBSTRUCTION REPORTED WITH A DEPTH OF 29 FEET, LOCATED AT 31°04'06.6"N; 081°16'35.7"W.
 B. THE EAST RIVER, LOWER REACH WIDENER LEAST DEPTHS WERE 31.0 FEET, LOCATED 50 FEET INSIDE THE CHANNEL LIMIT, AND 29.0 FEET, LOCATED 150 FEET INSIDE THE CHANNEL LIMIT FROM THE LEFT SIDE.
 NOTE - FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 50 FEET INSIDE THE CHANNEL LIMITS. (EXCEPT FOR THE EAST RIVER TURNING BASIN)
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 51/03

Chart 11512

NM 51/03

SAVANNAH RIVER CHANNEL DEPTHS						
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2003						
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET) LENGTH (NAUT. MILES) DEPTH MLLW (FEET)
TYBEE RANGE	43.0	42.0	43.5	43.0	10-03	600 3.3 44
BLOODY POINT RANGE	43.0	43.0	43.0	43.0	10-03	600 3.0 44
JONES ISLAND RANGE	44.0	42.0	43.0	44.0	10-03	600 1.2 44
TYBEE KNOT CUT RANGE	43.0	43.0	43.0	44.0	10-03	500 2.5 42
NEW CHANNEL RANGE (A)	42.5	41.5	43.0	43.0	10-03	500 1.6 42
L. I. CROSSING RANGE	45.0	43.5	44.0	41.0	10-03	500 2.6 42
LOWER FLATS RANGE	44.0	45.0	46.0	43.5	10-03	500 1.3 42
UPPER FLATS RANGE	42.0	44.5	45.0	44.0	10-03	500 1.2 42
THE BIGHT CHANNEL	45.0	45.0	45.5	47.0	10-03	500 1.5 42
FT. JACKSON RANGE	44.5	47.5	47.0	43.0	10-03	500 0.7 42
OGLETHORPE RANGE	43.0	45.5	45.0	43.0	10-03	500 1.2 42
WRECKS CHANNEL (B)	41.0	44.0	44.5	43.0	10-03	500 1.5 42
CITY FRONT CHANNEL	42.0	43.0	41.0	36.5	10-03	500 1.5 42
MARSH ISLAND CHANNEL (C)	41.0	43.5	44.0	42.0	10-03	500 1.7 42
KINGS ISLAND CHANNEL (D)	42.0	43.0	44.0	42.5	10-03	500 2.1 42
WHITEHALL CHANNEL (E)	29.5	34.0	35.0	36.0	10-03	400 0.6 42-36
PORT WENTWORTH CHANNEL (F)	30.0	32.5	31.0	32.0	12-94; 10-03	200 1.2 30

A. OYSTER BED I. TURNING BASIN-CONTROLLING DEPTH 43.0 FT, 37.0 FT 100 FT FROM BACKSIDE.
 B. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 38.0 FT, 30.5 FT 100 FT FROM BACKSIDE.
 C. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 35.5 FT, 32.0 FT 100 FT FROM BACKSIDE.
 D. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 38.0 FT, 40.0 FT 100 FT FROM BACKSIDE.
 E. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 37.5 FT 100 FT FROM BACKSIDE.
 F. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 33.0 FT, 29.0 FT 100 FT FROM BACKSIDE.

NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.
 NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.
 NOTE- CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11514 (Side A)

NM 51/03

SAVANNAH RIVER CHANNEL DEPTHS						
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2003						
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET) LENGTH (NAUT. MILES) DEPTH MLLW (FEET)
OGLETHORPE RANGE	43.0	45.5	45.0	43.0	10-03	500 1.2 42
WRECKS CHANNEL (A)	41.0	44.0	44.5	43.0	10-03	500 1.5 42
CITY FRONT CHANNEL	42.0	43.0	41.0	36.5	10-03	500 1.5 42
MARSH ISLAND CHANNEL (B)	41.0	43.5	44.0	42.0	10-03	500 1.7 42
KINGS ISLAND CHANNEL (C)	42.0	43.0	44.0	42.5	10-03	500 2.1 42
WHITEHALL CHANNEL (D)	29.5	34.0	35.0	36.0	10-03	400 0.6 42-36
PORT WENTWORTH CHANNEL (E)	30.0	32.5	31.0	32.0	12-94; 10-03	200 1.2 30

A. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 38.0 FT, 30.5 FT 100 FT FROM BACKSIDE.
 B. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 35.5 FT, 32.0 FT 100 FT FROM BACKSIDE.
 C. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 38.0 FT, 40.0 FT 100 FT FROM BACKSIDE.
 D. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 37.5 FT 100 FT FROM BACKSIDE.
 E. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 33.0 FT, 29.0 FT 100 FT FROM BACKSIDE.

NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.
 NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.
 NOTE- CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 51/03

Chart 12222

NM 51/03

NORFOLK HARBOR AND APPROACHES TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2003							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS	
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES) DEPTH MLLW (FEET)
THIMBLE SHOAL CHANNEL (A)							
NORTH ELEMENT (B)	47.6	46.5	45.6	44.1	6,7,9-00	350	13.0 55
SOUTH ELEMENT (C)	49.7	50.0	49.7	50.3	6,7,9-00	650	13.0 55
NORTH AUXILIARY CHANNEL (D)						450	32
SOUTH AUXILIARY CHANNEL (D)						450	32
NORFOLK HARBOR							
ENTRANCE REACH	50.3	51.5	52.9	52.0	4-99	1000	1.4 50
NORFOLK HARBOR REACH	51.3	50.8	45.6	45.4	9,10-02	1250-800	3.8 55
CRANEY ISLAND REACH	48.8	51.5	50.8	46.1	9,10-02	800	2.1 55
LAMBERTS BEND	36.9	45.8	40.0	37.5	3-02	750	0.3 45
PORT NORFOLK REACH	36.0	40.0	40.3	38.6	3-02	750	2.0 45
NEWPORT NEWS CHANNEL	48.7	50.7	50.7	50.4	2-03	800	4.2 55
CAPE HENRY CHANNEL	47.4	52.3	52.5	49.3	1,12-02	1000	4.0 50
YORK SPIT CHANNEL	45.1	49.4	49.5	47.2	11-89;2-00;9,11-02	1000(E)	18.4 50
A. THIS CHANNEL IS RESTRICTED TO EXCLUDE VESSELS AND TOWS DRAWING LESS THAN 25 FEET. B. PORTION OF PROJECT MAINTAINED TO 45 FEET C. PORTION OF PROJECT MAINTAINED TO 50 FEET D. PROJECT MAINTENANCE DISCONTINUED E. CHANNEL WIDTH MAINTAINED TO 800 FEET							
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 12311

NM 51/03

CHRISTINA RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2003							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT CHRISTINA RIVER DATUM						PROJECT DIMENSIONS	
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH (FEET)
ENTRANCE CHANNEL TO THE UPPER END OF THE TURNING BASIN	36.1	35.5	35.6	8-03	500-340	0.70	38
THENCE TO THE LOBDELL CANAL TURNING BASIN (OPPOSITE TERMINAL WHARF)	35.0	25.9	32.2	8-03	400	0.33	35
	35.8	36.4	36.6	8-03	320	0.34	38
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 12312

NM 51/03

CHRISTINA RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2003							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT CHRISTINA RIVER DATUM						PROJECT DIMENSIONS	
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH (FEET)
ENTRANCE CHANNEL TO THE UPPER END OF THE TURNING BASIN	36.1	35.5	35.6	8-03	500-340	0.70	38
THENCE TO THE LOBDELL CANAL TURNING BASIN (OPPOSITE TERMINAL WHARF)	35.0	25.9	32.2	8-03	400	0.33	35
	35.8	36.4	36.6	8-03	320	0.34	38
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

SECTION I

Chart 14832

NM 51/03

BUFFALO HARBOR CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2003 AND SURVEYS TO JUN 2003								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
BUFFALO HARBOR:								
SOUTH ENTRANCE INNER CHANNEL	26.3	26.0	24.7	21.5	12-01	400-1200	.37	29
OUTER HARBOR SOUTHERN CHANNEL	A19.7	23.9	25.9	25.8	12-01	1130-1425	.76	28
OUTER HARBOR TURNING BASIN	18.0	19.8	20.7	20.6	12-01	900	.80	23
OUTER HARBOR MIDDLE CHANNEL	19.2	23.9	24.1	23.7	12-01	500-1600	2.12	27
OUTER HARBOR NORTHERN CHANNEL	18.2	19.7	21.1	20.9	12-01	1175-1350	.91	23
BUFFALO RIVER ENTRANCE CHANNEL	B15.0	C19.4	D18.3	E18.5	6-03	220-1625	.98	23
BLACK ROCK CANAL:								
ENTRANCE CHANNEL	17.9	20.1	17.4	F17.2	12-01	450-1000	.80	21
BLACK ROCK CANAL TO LOCK	G15.3	19.6	20.0	12.1	12-01	200-350	3.05	21
THENCE TO BUOY 12	15.8	18.9	18.1	14.7	12-01	200-400	1.70	21
A. SHOALING TO 15.4 FEET AT 42°49'57.0"N-78°51'55.3"W. B. SHOALING TO 9.7 FEET IN OUTSIDE 50 FEET OF QUARTER WITHIN 200 FEET OF END OF REACH. C. SHOALING TO 10.8 FEET WITHIN 100 FEET OF END OF REACH. D. SHOALING TO 13.9 FEET WITHIN 300 FEET OF END OF REACH. E. SHOALING TO 13.0 FEET OUTSIDE 50 FEET OF QUARTER. F. SHOALING TO 6.6 FEET IN OUTSIDE 50 FEET OF QUARTER AND 12.7 FEET WITHIN 200 FEET OF END OF REACH. G. SHOALING TO 12.7 FEET AT 42°55'50.9"N-78°54'07.6"W. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 14833

NM 51/03

BUFFALO HARBOR CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2003 AND SURVEYS TO JUN 2003								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
BUFFALO HARBOR:								
SOUTH ENTRANCE INNER CHANNEL	26.3	26.0	24.7	21.5	12-01	400-1200	.37	29
OUTER HARBOR SOUTHERN CHANNEL	A19.7	23.9	B25.9	25.8	12-01	1130-1425	.76	28
OUTER HARBOR TURNING BASIN	18.0	19.8	20.7	20.6	12-01	900	.80	23
OUTER HARBOR MIDDLE CHANNEL	19.2	23.9	24.1	23.7	12-01	500-1600	2.12	27
OUTER HARBOR NORTHERN CHANNEL	18.2	19.7	21.1	20.9	12-01	1175-1350	.91	23
BUFFALO RIVER:								
ENTRANCE CHANNEL	C15.0	D19.4	E18.3	F18.5	6-03	220-1625	.98	23
BUFFALO RIVER	G9.8	H15.0	I14.1	J10.0	6-03	100-700	5.27	23
BUFFALO SHIP CANAL	18.3	20.4	18.1	K16.3	6-03	125	1.02	23
BLACK ROCK CANAL:								
ENTRANCE CHANNEL	17.9	20.1	17.4	L17.2	12-01	450-1000	.80	21
BLACK ROCK CANAL TO LOCK	M15.3	19.6	20.0	12.1	12-01	200-350	3.05	21
A. SHOALING TO 15.4 FEET AT 42°49'57.0"N-78°51'55.3"W. B. SHOALING TO 23.5 FEET AT 42°49'55.3"N-78°51'41.1"W. C. SHOALING TO 9.7 FEET IN OUTSIDE 50 FEET OF QUARTER WITHIN 200 FEET OF END OF REACH. D. SHOALING TO 10.8 FEET WITHIN 100 FEET OF END OF REACH. E. SHOALING TO 13.9 FEET WITHIN 300 FEET OF END OF REACH. F. SHOALING TO 13.0 FEET OUTSIDE 50 FEET OF QUARTER. G. SHOALING TO 8.8 FEET LAST 200 FEET OF REACH AND 9.2 FEET WITHIN 200 FEET OF POINT AT 42°51'45.3"N-78°52'05.8"W. H. SHOALING TO 11.6 FEET LAST 300 FEET OF REACH AND SHOALING TO 12.5 FEET WITHIN 200 FEET OF POINT AT 42°51'43.1"N-78°50'08.4"W. I. SHOALING TO 13.1 FEET WITHIN 300 FEET OF POINT AT 42°51'25.9"N-78°51'09.1"W AND 10.5 FEET WITHIN 100 FEET OF BRIDGE ABUTMENTS. SHOALING TO 10.3 FEET LAST 200 FEET OF REACH AND 12.3 FEET AT 42°51'36.20"N-78°50'42.53"W. SHOALING TO 11.6 FEET WITHIN 200 FEET OF POINT AT 42°51'24.2"N-78°50'39.9"W J. SHOALING TO 3.6 FEET WITHIN 300 FEET OF POINT AT 42°51'38.0"N-78°50'42.7"W SHOALING TO 9.1 FEET POINT AT 42°51'48.75"N-78°50'26.95"W. K. SHOALING TO 10.6 FEET WITHIN 125 FEET OF END OF REACH. L. SHOALING TO 6.6 FEET IN OUTSIDE 50 FEET OF QUARTER AND 12.7 FEET WITHIN 200 FEET OF END OF REACH. M. SHOALING TO 12.7 FEET AT 42°55'50.9"N-78°54'07.6"W. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

SECTION I

NM 51/03

Chart 14839

NM 51/03

CLEVELAND HARBOR CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2003 AND REPORTS TO AUG 2003						
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)					PROJECT DIMENSIONS	
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET) LENGTH (NAUT. MILES) DEPTH LWD (FEET)
LAKE APPROACH CHANNEL	28.1	30.3	29.8	27.3	4-03	600-750 0.22 29
ENTRANCE CHANNEL	27.9	29.6	30.1	26.4	5-03	225-750 0.22 28
CUYAHOGA RIVER						
PIER RANGE	A18.1	26.0	27.9	B18.9	5-03	230 0.30 27
THENCE TO LORAIN						
CARNEGIE VIADUCT BRIDGE	11.8	22.3	21.9	C11.1	5-03	100-700 2.69 23
THENCE TO END OF PROJECT	D9.5	E19.6	F18.8	G14.1	5-03	110-400 3.11 23
OLD RIVER						
FROM CUYAHOGA RIVER						
TO END OF PROJECT	16.8	22.3	22.3	H17.5	5-03	125-200 1.10 27
EAST BASIN						
AIRPORT RANGE	20.5	23.7	23.8	19.4	8-03	500 3.11 25
TURNING BASIN	23.9	23.2	24.6	23.1	8-03	400-1600 0.33 25
EASTERN SECTION	I20.9	22.0	22.5	22.1	5-03	1250-1540 0.72 27
WESTERN SECTION	21.1	23.9	28.7	26.6	5-03	1300-1540 0.28 28
WEST BASIN	J24.1	K24.9	L22.7	M21.1	5-03	1150-1570 0.91 28
A. EXCEPT FOR SHOALING TO 15.1 FEET AT 41°30'00.7"N 081°42'31.5"W. B. EXCEPT FOR SHOALING TO 17.6 FEET AT 41°29'59.9"N 081°42'34.4"W. C. EXCEPT FOR SHOALING TO 4.4 FEET AT 41°29'37.2"N 081°42'13.7"W. D. EXCEPT FOR SHOALING TO 5.3 FEET AT 41°29'22.4"N 081°41'00.2"W. E. EXCEPT FOR SHOALING TO 8.5 FEET IN LAST 800 FEET OF QUARTER. F. EXCEPT FOR SHOALING TO 8.9 FEET IN LAST 1000 FEET OF QUARTER. G. EXCEPT FOR SHOALING TO 1.1 FEET FROM 41°29'10.8"N 081°40'47.3"W TO 41°29'09.4"N 081°40'46.0"W AND TO 2.5 FEET IN LAST 1000 FEET OF QUARTER. H. EXCEPT FOR SHOALING TO 14.4 FEET FROM 41°29'50.6"N 081°42'44.5"W TO 41°29'51.3"N 081°42'43.6"W. I. EXCEPT FOR SHOALING TO 16.0 FEET IN LEFT OUTSIDE 50 FEET OF QUARTER. J. EXCEPT FOR SHOALING TO 19.6 FEET IN WESTERN 500 FEET OF PROJECT. K. EXCEPT FOR SHOALING TO 16.8 FEET IN WESTERN 500 FEET OF PROJECT. L. EXCEPT FOR SHOALING TO 15.4 FEET IN WESTERN 500 FEET OF PROJECT. M. EXCEPT FOR SHOALING TO 14.8 FEET IN WESTERN 500 FEET OF PROJECT.						
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION						

Chart 14842 (Page 26)

NM 51/03

SANDUSKY HARBOR CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUN 2003						
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)					PROJECT DIMENSIONS	
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET) LENGTH (NAUT. MILES) DEPTH LWD (FEET)
MOSELEY CHANNEL	22.8	24.4	25.2	A7.5	6-03	400 2.15 26
UPPER STRAIGHT CHANNEL	20.5	22.7	24.3	21.2	6-03	400 1.04 25
UPPER BAY CHANNEL	19.1	22.1	21.4	15.4	6-03	300 1.64 25
LOWER BAY CHANNEL	20.5	21.4	23.1	26.4	6-03	350 .24 24
TURNING BASIN	13.6	19.6	21.8	20.6	6-03	300-1725 .50 24
DOCK CHANNEL	17.3	16.5	18.5	16.4	6-03	300 1.10 22
LOWER STRAIGHT CHANNEL	16.5	16.5	17.6	16.8	6-03	400 .77 21
A. EXCEPT FOR SHOALING TO 3.8 FEET IN THE VICINITY OF BUOY 10.						
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION						

SECTION I

NM 51/03

Chart 14843

NM 51/03

HURON HARBOR CHANNEL DEPTHS						
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2003 AND REPORTS TO AUG 2003						
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)				PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET) LENGTH (STAT. MILES) DEPTH (FEET)
ENTRANCE CHANNEL	15.7	22.0	23.4		5-03; 7-03	400-300 .170 29.0
HURON RANGE	20.6	23.7	19.9A		5-03	300-150 .36 28.0
EAST TURNING BASIN	23.6	24.8	21.4		5-03	150-350 .270 27.0
WEST TURNING BASIN	18.3	14.7	13.5		5-03	450 .210 21.0

A. SHOAL TO 7.4 FT FOR OUTSIDE 50 FT OF QUARTER FROM 41°23'55.5"N/82°32'56.0"W TO 41°23'52.3"N/82°32'59.5"W
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 14844

NM 51/03

SANDUSKY HARBOR CHANNEL DEPTHS						
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUN 2003						
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)				PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET) LENGTH (NAUT. MILES) DEPTH (FEET)
MOSELEY CHANNEL	22.8	24.4	25.2	A7.5	6-03	400 2.15 26
UPPER STRAIGHT CHANNEL	20.5	22.7	24.3	21.2	6-03	400 1.04 25
UPPER BAY CHANNEL	19.1	22.1	21.4	15.4	6-03	300 1.64 25
LOWER BAY CHANNEL	20.5	21.4	23.1	26.4	6-03	350 .24 24
TURNING BASIN	13.6	19.6	21.8	20.6	6-03	300-1725 .50 24
DOCK CHANNEL	17.3	16.5	18.5	16.4	6-03	300 1.10 22
LOWER STRAIGHT CHANNEL	16.5	16.5	17.6	16.8	6-03	400 .77 21

A. EXCEPT FOR SHOALING TO 3.8 FEET IN THE VICINITY OF BUOY 10.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 14845

NM 51/03

SANDUSKY HARBOR CHANNEL DEPTHS						
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUN 2003						
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)				PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET) LENGTH (NAUT. MILES) DEPTH (FEET)
MOSELEY CHANNEL	22.8	24.4	25.2	A7.5	6-03	400 2.15 26
UPPER STRAIGHT CHANNEL	20.5	22.7	24.3	21.2	6-03	400 1.04 25
UPPER BAY CHANNEL	19.1	22.1	21.4	15.4	6-03	300 1.64 25
LOWER BAY CHANNEL	20.5	21.4	23.1	26.4	6-03	350 .24 24
TURNING BASIN	13.6	19.6	21.8	20.6	6-03	300-1725 .50 24
DOCK CHANNEL	17.3	16.5	18.5	16.4	6-03	300 1.10 22
LOWER STRAIGHT CHANNEL	16.5	16.5	17.6	16.8	6-03	400 .77 21

A. EXCEPT FOR SHOALING TO 3.8 FEET IN THE VICINITY OF BUOY 10.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION II

NM 51/03

NGA HYDROGRAPHIC PRODUCTS CATALOG CORRECTIONS

Note: Underlining indicates that column in which a correction has been made or new information added.					Edition		Price Category	Page(s)	NTM
NGA Ref. No. (National Stk. No.)	Title	Scale = 1:	No.	Date					
11XHA11541 (7642014010274)	REGION 1 Neuse River to Myrtle Grove Sound (Not shown on index)	40,000	<u>34</u>	<u>10/03</u>	NOS	1-94	51/03		
93AHA93734 (7642014014045)	REGION 9 Approaches to Hong Kong	25,000	<u>12</u>	<u>9/03</u>	A	9-42	51/03		
DNCDXVDU (7644014946812)	MISCELLANEOUS CHARTS AND PUBLICATIONS Digital Nautical Chart (DNC) - VPF Database Update (VDU)		<u>20</u>	<u>10/03</u>	DS	10-43	51/03		
CDPUBSD145 (7644014665878)	<u>Nova Scotia and the Saint Lawrence (Enroute), 2003</u>				GPO	10-19, 38	51/03		
NOSPBCP5 (7642014008453)	<u>No. 5 Gulf of Mexico, Puerto Rico, and Virgin Islands, 2004</u>				NOS	10-25	51/03		

Price Categories effective 1 October 2002

A 17.75	E 9.00	G 4.50	I 26.25
D 10.75	F 9.00	H 2.50	R 2.50

CHS Canadian Hydrographic Service

DS Distribution Limited

GPO Government Printing Office

NOS National Ocean Service

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SECTION II
NAVIGATION PUBLICATIONS

NM 51/03

SAILING DIRECTIONS CORRECTIONS

PUB 125 7 Ed 2003 LAST NM 49/03

Page 20—Line 25/R; insert after:

It was reported (2003) that the entrance width is approximately 91.5m. It is recommended that ships with a draft of 9m or greater enter and exit at HW.

(PUBS 028/03)

51/03

Page 21—Line 35/L; insert after:

It was reported (2003) that a wreck lies outside the harbor in approximate position 0°53'S, 80°43'W.

(PUBS 028/03)

51/03

Page 33—Line 5/R; read:

draft is 5.8m. This pier is used for general cargo. Pier No. 2 has an alongside depth of 11.6m. It can accommodate vessels up to 24,000 dwt and a draft of 9.5m.

(BA NP 7)

51/03

Page 34—Lines 52 to 56/R; read:

Muelle del Terminal Marítimo is the principal pier in the port. It is a finger pier, 360m in length, containing four berths, with alongside depths from 6 to 9.7m. Muelle del Pesquero, a fish wharf 221m in length, has a depth of 15m at its head.

(BA NP 7)

51/03

PUB 145 9 Ed 2003 NEW EDITION

(NGA)

51/03

PUB 160 2 Ed 2002 LAST NM 49/03

Page III—Lines 9/L to 44/R; read:

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Currents.—Current directions are the true directions toward which currents set.

Distances.—Distances are expressed in nautical miles of 1 minute of latitude. Distances of less than 1 mile are expressed in meters, or tenths of miles.

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PUB 160 (Continued)

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Winds.—Wind directions are the true directions from which winds blow.

(NGA) 51/03

PUB 172 9 Ed 2001 LAST NM 48/03

Page 128—Lines 54 to 56/L; read:

80,000 to 400,000 dwt range; tankers greater than 265,000 dwt can only be partially loaded.

Pilotage is compulsory. Vessels must send an ETA 10 days, 72 hours, 48 hours, 24 hours, and 12 hours in advance. Any change to the ETA of over 3 hours must also be reported.

The
(BA NP 64; Fairplay; Guide to Port Entry) 51/03

Page 130—Line 25/L; read:

Ras Fintas.

Prevailing winds are from the NE from October to April and from the SW from May to September.

The harbor is protected by two breakwaters and has
(Fairplay) 51/03

Page 130—Line 28/L; read:

5.0m, along its NW face.

(Guide to Port Entry; Lloyd's Ports) 51/03

Page 165—Lines 42 to 47/L; read:

Qalhat LNG Terminal (22°41'N., 59°24'E.) (World Port Index No. 48240) is situated about 1.4 miles SE of the village. The terminal consists of two T-shaped jetties extending about 0.2 mile from shore in a semi-protected bay open to the sea.

Oman LNG Home Page<http://www.omanlng.com>

Winds—Weather.—The terminal is sheltered, by the mountains to the S, from the strong winds of the Southwest Monsoon during the summer (June to September). During the remainder of the year, the terminal is exposed to the Northeast Monsoon.

Tides—Currents.—Currents are mainly tidal, but can be affected by the wind if blowing from the same direction for an extended period of time. Currents, which run parallel to the berthing face, are NW on the flood tide and SE on the ebb tide and rarely exceed a rate of 0.4 knot.

Depths—Limitations.—The LNG Jetty can accommodate vessels up to 125,845 dwt, with a maximum length of 310m and a maximum draft of 12.1m.

The MOF Condensate Jetty can accommodate vessels up to 13,000 dwt, with a maximum length of 140m and a maximum draft of 7.7m. An underkeel clearance of 2m is required to be maintained at all times.

Weather conditions which limit terminal operations are given in the accompanying table.

Aspect.—A conspicuous flare, 106m in height, is located in the terminal.

Pilotage.—Pilotage is compulsory for all vessels using the terminal. The pilot boards in position 22°43.0'N, 59°27.5'E. Berthing and unberthing can be done 24 hours.

Regulations.—Vessels must send their ETA when departing their previous port. The ETA should also be sent 96 hours, 48 hours, 24 hours, and 5 hours prior to arrival. Any changes to the vessel's ETA should be sent, as follows:

1. A change of more than 12 hours from the initial ETA sent from the departure port.
2. A change of more than 6 hours following the 96-hour message and before the 24-hour message.
3. A change of more than 2 hours following the 24-hour message.

Anchorage.—Anchorage can be obtained about 2 miles E of the LNG Jetty, in a bottom of mud, sand, and shingle. Permission from the terminal is required to anchor.

Caution.—Fishing activity, mainly during the hours of darkness, occurs in the approaches to the terminal. Drift nets in excess of 1,000m long are used; both the nets and the fishing boats setting them are poorly lit. Because of this, approaching and departing the terminal should be made with caution, preferably maintaining a NE or SW course, as appropriate, until well clear of the coast.

(Guide to Port Entry; US NM 47/03, Section II) 51/03

Page 165—Line 47/L; insert after:

New table titled **Qalhat Terminal Operating Limitations**

PUB 172 (Continued)

from back of this Subsection.
(Guide to Port Entry)

51/03

Page 166—Line 55/R; insert after:



(NGA) 51/03

Page 167—Lines 41 to 49/R; read:
pipelines. Berthing limitations are given in the accompanying table.

Mina al Fahl—Berthing Limitations (2003)			
Berth	Depth	Vessel size	Maximum draft
SBM No. 1	34m	350,000 dwt	18.5m. See Note 1.
SBM No. 2	43m	554,000 dwt	See Note 2.
SBM No. 3	20m	100,000 dwt	14.0m

Note 1.—This is the maximum berthing draft. The maximum departure draft is 21.5m.

Note 2.—No draft limitations.

(Fairplay; Guide to Port Entry; Lloyd's Ports) 51/03

Page 167—Table; replace with below:
New table titled **Mina Qabus—Berthing Facilities (2003)** from back of this Subsection. (Previously corrected in US NM 5/02.)

(Fairplay; Guide to Port Entry; Lloyd's Ports) 51/03

Page 187—Lines 6 to 7/L; read:
ENE from the inlet's W shore contains two quays; one is 90m long and the other is 60m long, both of which have an alongside depth of 4m. A drying sand bank extends about
(Fairplay) 51/03

Page 189—Line 54/R; read:
handle tankers of up to 275,000 dwt.
(Fairplay; Guide to Port Entry; Lloyd's Ports) 51/03

Page 190—Line 14/L; read:
When within range, contact the terminal on VHF channel 71.
(Fairplay; Guide to Port Entry; Lloyd's Ports) 51/03

Page 207—Lines 26 to 28/L; read:
15.6 Khawr Umm al Qaywayn ($25^{\circ}34'N$, $55^{\circ}36'E$) is an inlet comprising an extensive backwater in which
(NGA) 51/03

Page 207—Lines 41 to 43/L; read:

Umm al Qaywayn (Ahmed Bin Rashid) (Umm al Quwain) ($25^{\circ}34'N$, $55^{\circ}36'E$) (World Port Index No. 48272) is located on the peninsula of Umm al Qaywayn, which is connected with the mainland W of it by a narrow isthmus about 0.1 mile wide.

Tides—Currents.—Cross channel sets of up to 2 knots may be experienced in the approach channel.

Depths—Limitations.—The port is approached through a channel, which has a minimum depth of 10m, marked by lighted buoys and lighted beacons. The approach channel is 100m wide, increasing to a width of 160m at the N end of Berth No. 4 and connecting to a turning basin, with a diameter of 500m, at the S end of Berth No. 5.

There are two berthing facilities in the port. Details are given in the accompanying table.

Aspect.—A square fort near the
(Fairplay; Guide to Port Entry; Lloyd's Ports) 51/03

Page 207—Lines 49 to 58/L; read:
SSW of Umm al Qaywayn.
(NGA) 51/03

Page 207—Line 6/R; insert after:
New table titled **Umm al Qaywayn—Berthing Information (2003)** from back of this Subsection.
(Fairplay; Guide to Port Entry; Lloyd's Ports) 51/03

Page 207—Line 29/R; read:
and a length of between 186m and 230m, can be accommodated.

(Fairplay; Guide to Port Entry; Lloyd's Ports) 51/03

Page 208—Line 24/L; read:
Sharjah Offshore Terminal

(NGA) 51/03

Page 208—Line 30/L; read:
vessels in excess of 80,000 dwt up to 150,000 dwt to moor, provided the vessel

(Guide to Port Entry; Lloyd's Ports) 51/03

Page 212—Line 21/R; insert after:

Vessels contact Umm al Nar Port Control, on VHF channel 9, as follows:

1. Two hours prior to arrival at Abu Zaby Fairway Buoy.
2. Upon arrival at Abu Zaby Fairway Buoy to confirm the ETA at the breakwater.
3. To report any changes to the ETA.

Vessels should maintain a continuous listening watch on VHF channels 9 and 67.

(Guide to Port Entry) 51/03

Page 213—Lines 50/L to 2/R; read:

Depths—Limitations.—SPM No. 1 is located about 3 miles ESE of the center of the production area, in a depth of

PUB 172 (Continued)

44.2m. SPM No. 2 is located about 2 miles SW of the center of the production area, in a depth of 45.7m. Berthing limitations are given in the accompanying table.

(Fairplay; Guide to Port Entry; Lloyd's Ports) 51/03

Page 213—Line 2/R; insert after:

New table titled **Fath Oil Terminal—Berthing Limitations (2003)** from back of this Subsection.

(Fairplay; Guide to Port Entry; Lloyd's Ports) 51/03

Page 214—Lines 1 to 2/L; read:

about 9 miles ESE of **Halat al Mubarraz** (24°28'N., 53°22'E.). Vessels up to 235,000 dwt, with a maximum draft of 13.5m, can be accommodated.

(Lloyd's Ports) 51/03

Page 215—Line 56/L; insert after:

Abu Dhabi National Oil Company Home Page

<http://www.adnoc.com>

(NGA) 51/03

Page 215—Lines 12 to 13/R; read:

Depths—Limitations.—Each SPM can accommodate vessels from 30,000 to 350,000 dwt, with a maximum draft of 21m.

(Fairplay; Guide to Port Entry; Lloyd's Ports) 51/03

Page 216—Line 2/R; insert after:

Abu Dhabi National Oil Company Home Page

<http://www.adnoc.com>

(NGA) 51/03

Page 216—Lines 29 to 43/R; read:

Vessels up to 450,000 dwt, with a maximum length of 377m in length, can be accommodated. Available depths at the berths range from 15.5m to 16.7m.

The Liquid Products Jetty is located at the end of a 3,000m long trestle jetty. There are three berths on the outer face of the jetty head. Berthing limitations are, as follows:

1. Berth B:	Minimum length	118m
	Maximum length	280m
	Minimum size	91,000 dwt
	Maximum size	104,000 dwt
	Depth alongside	18.5m
2. Berth C:	Minimum length	180m
	Maximum length	295m
	Minimum size	26,000 dwt
	Maximum size	130,000 dwt

3. Berth E:	Depth alongside	18.2m
	Minimum length	180m
	Maximum length	360m
	Minimum size	20,000 dwt
	Maximum size	333,000 dwt
	Depth alongside	18.5m

The Coastal Tanker Jetty extends WNW from a position about midway along the Liquid Products Jetty. It provides four tanker berths, with alongside depths of 8.7 to 9.4m. Vessels up to 9,100 dwt, with a length of between 70 and 118m, can be accommodated.

LNG Jetty, located about 0.3 mile SE of Liquid Products Jetty, offers an alongside depth of 15m to vessels loading LNG; vessels up to 125,000 cu.m., with a maximum loaded draft of 14.3m, can be accommodated.

The Bulk Cargo Terminal (FERTIL) lies about 0.9 mile SE of LNG Jetty. Bulk and break bulk fertilizer is handled on the E side of the pier. The berthing area is 512m long and can accommodate vessels up to 35,000 dwt, with a maximum length of 180 and a maximum draft of 11m. Three mooring dolphins at the N end of the pier are used by vessels loading anhydrous ammonia. The approach to the berth and the turning basin E of

(Fairplay; Guide to Port Entry; Lloyd's Ports) 51/03

Page 217—Line 16/R; insert after:

Abu Dhabi National Oil Company Home Page

<http://www.adnoc.com>

(NGA) 51/03

Page 217—Lines 21 to 38/R; read:

Depths—Limitations.—Four loading berths are available, as follows:

1. Berth No. 2—A dolphin berth located about 0.5 mile NE of the S end of Jazirat Das.
2. Berth No. 3—A Single Point Mooring (SPM) buoy located about 1.2 miles E of Berth No. 2.
3. Berth No. 4—An LPG/LNG/sulfur facility located about 0.6 mile NNW of Berth No. 2. The berth has two platforms, close together, seaward of a T-headed jetty. The N platform handles pelleted sulfur. The S platform handles LNG/LPG vessels.

4. Berth No. 5—A sulfur-loading berth located between Berth No. 2 and Berth No. 4, consisting of a platform joined by a trestle jetty to the shore, with mooring dolphins on either side.

Berthing limitations are given in the accompanying table.
(NGA) 51/03

Page 217—Line 41/R; read:

range from 2.7 to 4.7m. Vessels up to 58m long can be accommodated.

(Lloyd's Ports) 51/03

PUB 172 (Continued)

PUB 172	7 Ed 2002	LAST NM 50/03	PUB 180	3 Ed 2002	LAST NM 49/03
Page 217—Line 41/R; insert after: New table titled Jazirat Das—Berthing Limitations (2003) from back of this Subsection. (Fairplay; Guide to Port Entry; Lloyd's Ports)		51/03	Page III—Lines 9/L to 44/R; read: Sailing Directions are published by the National Geospatial-Intelligence Agency (NGA) under the authority of Department of Defense Directive 5105.40, dated 12 December 1988, and pursuant to the authority contained in U. S. Code Title 10, Sections 2791 and 2792 and Title 44, Section 1336. Sailing Directions, covering the harbors, coasts, and waters of the world, provide information that cannot be shown graphically on nautical charts and is not readily available elsewhere.		
PUB 173	7 Ed 2002	LAST NM 50/03			
Page 125—Lines 6 to 7/R; read: of the inner harbor, has eight berths. In 1983 Jawahar Dock was extended to an overall length of 655m. (BA NP 21)		51/03	In the period between editions, important information, which may amend material in the publication, is published in the Notice to Mariners, as well as on the NGA Maritime Safety Information Division website (http://164.214.12.145/untm/untm_j_pubscorrect_query.html?class_flag=N).		
Page 126—Line 32/R; read: Vessels which are not awaiting berth on arrival are not to anchor N of (BA NP 21)		51/03	Sailing Directions (Planning Guide) are intended to assist mariners in planning ocean passages and to eliminate duplication by consolidating useful information about all the countries adjacent to a particular ocean basin in one volume.		
Page 126—Line 37/R; insert after: It is marked by a lighted buoy lying 0.2 mile E. (BA NP 21)		51/03	Planning Guide publications are compiled and structured in the alphabetical order of countries contained within the region covered by each publication.		
Page 132—Line 53/L; insert after: A new offshore oil berth has been added to accommodate tankers up to 150,000 dwt, 280m in length, and with a draft of 17m. (BA NP 21)		51/03	Bearings. —Bearings are true, and are expressed in degrees from 000° (north) to 360°, measured clockwise. General bearings are expressed by the initial letters of the points of the compass (e.g. N, NNE, NE, etc.). Adjective and adverb endings have been discarded. Wherever precise bearings are intended degrees are used.		
Page 150—Line 20/R; insert after: A dangerous wreck is situated in the outer approach to Lacam's Channel about 18 miles E of Eastern Channel Light (BA NP 21)		51/03	Corrective Information. —Corrective information and other comments about this publication can be forwarded to NGA, as follows:		
Page 156—Line 38/R; insert after: <div style="border: 1px solid black; padding: 10px; text-align: center;">Port Authority of Chittagong http://www.cpabd.com</div> (NGA)		51/03	1. Mailing address— Maritime Safety Information Division ST D 44 National Geospatial-Intelligence Agency 4600 Sangamore Road Bethesda MD 20816-5003		
Page 157—Line 49/R; insert after: There are three main anchorage areas outside the harbor. Anchorage A is for vessels over 9m draft. Anchorage B is used by vessels entering port within 24 hours. Anchorage C is for vessels lighterizing and vessels not scheduled to enter port within 24 hours. (NGA)		51/03	2. E-mail address— sdpubs@nga.mil		
Page 246—Line 18/R; insert after: A shoal, with a least reported depth of 5m, lies 0.5 mile S of Indira Point Light, which marks the S extremity of Great Nicobar Island. (BA NM 43/03, Section IV)		51/03	Courses. —Courses are true, and are expressed in the same manner as bearings. The directives “steer” and “make good” a course mean, without exception, to proceed from a point of origin along a track having the identical meridional angle as the designated course. Vessels following the directives must allow for every influence tending to cause deviation from such track, and navigate so that the designated course is continuously being made good.		
			Currents. —Current directions are the true directions toward which currents set.		
			Distances. —Distances are expressed in nautical miles of 1 minute of latitude. Distances of less than 1 mile are expressed in meters, or tenths of miles.		
			Geographic Names. —Geographic names are generally those used by the nation having sovereignty. Names in parentheses following another name are alternate names that may appear on some charts. In general, alternate names are quoted only in the principal description of the place. Diacritical marks, such as accents, cedillas, and circumflexes, which are related to specific letters in certain foreign		

PUB 180 (Continued)

languages, are not used in the interest of typographical simplicity.

Geographic names or their spellings do not necessarily reflect recognition of the political status of an area by the United States Government.

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2. Straight baseline, internal waters, or historic waters claims.
3. The establishment of a security zone, where a state claims to control activity beyond its territorial sea for security reasons unrelated to that state's police powers in its territory, including its territorial sea.

Radio Navigational Aids.—Radio navigational aids and radio weather services are not described in detail. Publication No. 117 Radio Navigational Aids and NOAA Publication, Selected Worldwide Marine Weather Broadcasts, should be consulted.

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Soundings.—Soundings are referred to the datum of the charts and are expressed in meters.

Special Warnings.—Special Warnings may be in force for the geographic area covered by this publication. Special Warnings are printed in the weekly Notice to Mariners upon promulgation and are reprinted annually in Notice to Mariners No. 1. A listing of Special Warnings currently in force is printed in each weekly Notice to Mariners, Section III, Broadcast Warnings, along with the notice number of promulgation. Special Warnings are also available on the Maritime Safety Information Division website (http://164.214.12.145/warn/warn_j_query.html).

Winds.—Wind directions are the true directions from which winds blow.

(NGA) 51/03

PUB 200**4 Ed 2002****LAST NM 41/03**

Page III—Lines 9 to 10/L; read:

Sailing Directions are published by the National Geospatial-Intelligence Agency (NGA) under the authority of Department of
(NGA) 51/03

Page III—Line 37/L; read:

Geospatial-Intelligence Agency. This information is provided
(NGA) 51/03

Page III—Lines 8 to 11/R; read:

Corrective information and other comments about this publication can be forwarded to NGA, as follows:

1. Mailing address—

Maritime Safety Information Division
ST D 44
National Geospatial-Intelligence Agency
4600 Sangamore Road
Bethesda MD 20816-5003

2. E-mail address—

sdpubs@nga.mil
The Sailing Directions
(NGA) 51/03

COAST PILOT CORRECTIONS**COAST PILOT 3****36 Ed 2003****Change No. 21****LAST NM 50/03**

Page 175—Paragraph 32, lines 3 to 5; read:

Manasquan River. In August 2003, the controlling depth was 8.8 feet (10.5 feet at midchannel) in the inlet through the jetties, thence 3.2 feet (6.7 feet at midchannel) to the first ...
(BPs 181704-05) 51/03

Page 187—Paragraph 27, lines 3 to 5; read:

to the first bridge. In August 2003, the controlling depth was 8.8 feet (10.5 feet at midchannel) in the inlet through the jetties, thence 3.2 feet (6.7 feet at midchannel) to the first ...
(BPs 181704-05) 51/03

Page 190—Paragraph 76, line 7; read:

There are numerous small-craft facilities along Parker Run. (See the small-craft facilities tabulation on chart 12316 for services and supplies available.)
(CL 1052/03) 51/03

Page 191—Paragraph 91, lines 10 to 14; read:

20 feet. Two small-craft facilities just below the bascule bridge, on both sides of the river, have berths with electricity, gasoline, diesel fuel, water, ice, a pump-out station, dry storage and marine supplies. A 12-ton lift is available; hull, engine and electronic repairs can be made.
(CL 1052/03; CL 1185/03) 51/03

COAST PILOT 3 (Continued)

Page 192—Paragraph 101, lines 12 to 15; read:
about 0.5 mile below the bridges. A 7-ton lift and a 30-foot marine railway are available; engine, hull, electronic repairs can be made. Gasoline, dry storage, water, ice and marine supplies are also available.

(CL 984/03) 51/03

Page 192—Paragraph 105, lines 6 to 8; read:
drawbridge regulations.) (NOS 12316) 51/03

Page 192—Paragraph 106, line 4; read:
Thorofare and continues southwestward. A small-craft facility southwest of the turn has water, ice, wet and dry storage, marine supplies, launching ramp, hull, engine and electronic repairs available.
(CL 1607/03) 51/03

Page 282—Paragraph 97, lines 4 to 7; read:
above the entrance. In February-April 2003, the controlling depths were 6 feet in the left half of the entrance channel and 1.7 feet in the right half of the entrance channel to Daybeacon 6A, thence 4.2 feet to the basin, thence 6 ...
(BP 181757; CL 1604/03) 51/03

Page 319—Paragraph 104, line 12; read:
and 117.571, chapter 2, for drawbridge regulations.) Gasoline, diesel fuel, berths, electricity, pump-out station, water and ice are available on the north side of the creek just east of the bridge.
(CL 728/03) 51/03

Page 331—Paragraph 59, lines 3 to 5; read:
well-marked dredged channels. In September 2002, the controlling depths were 4.5 feet (6.0 feet at midchannel) from Chesapeake Bay and 5.8 feet (6.9 feet ...
(CL 1588/03; BPs 181717-19) 51/03

**COAST PILOT 4 35 Ed 2003 Change No. 18
LAST NM 47/03**

Page 104—Paragraphs 1240 to 1259; read:
Virginia

§117.997 Atlantic Intracoastal Waterway, South Branch of the Elizabeth River to the Albemarle and Chesapeake Canal.

(a) The draw of the Belt Line Railroad Bridge, mile 2.6, in Portsmouth and Chesapeake will operate as follows:

(1) The bridge will be left in the open position at all times and will only be lowered for the passage of trains and to perform periodic maintenance authorized in accordance with subpart A of this part.

(2) The bridge will be operated by the controller at the Berkley Yard office.

(3) The controller will monitor waterway traffic in the area of the bridge and directly beneath the bridge with closed circuit cameras mounted on top of the bridge and with surface navigational radar.

(4) When the bridge closes for any reason, the controller will announce 30 minutes in advance, 15 minutes in advance, and immediately proceeding the actual lowering, over marine channel 13, that the Belt Line Railroad Bridge is closing for river traffic. In each of these three announcements, the bridge/train controller will request all concerned river traffic to please acknowledge on marine channel 13.

(5) The bridge shall only be operated from the remote site if closed circuit visual and radar information shows there are no vessels in the area and no opposing radio communications have been received.

(6) While the Belt Line Bridge is moving from the full open position to the full closed position, the bridge/train controller will maintain constant surveillance of the navigational channel to ensure no conflict with maritime traffic exists. In the event of failure of a camera or the radar system, or loss of marine-radio communications, the bridge shall not be operated by the off-site bridge/train controller from the remote location.

(7) If the off-site bridge/train controller's visibility of the navigational channel is less than $\frac{1}{3}/4$ of a mile, the bridge shall not be operated from the remote location.

(8) When the draw cannot be operated from the remote site, a bridgetender must be called to operate the bridge in the traditional on- site manner.

(9) The Belt Line mid-channel lights will change from green to red anytime the bridge is not in the full open position.

(10) During the downward and upward span movement, a warning alarm will sound until the bridge is seated and locked down or in the full open position.

(11) When the bridge has returned to its full up position, the mid- channel light will turn from red to green, and the controller will announce over marine radio channel 13, "Security, security, security, the Belt Line bridge is open for river traffic." Operational information will be provided 24 hours a day on marine channel 13 and via telephone (757) 543-1996 or (757) 545-2941.

(b) The draw of the Jordan (S337) bridge, mile 2.8, in Chesapeake:

(1) Shall open on signal at any time for commercial vessels carrying liquified flammable gas or other hazardous materials.

(2) From 6:30 a.m. to 8:30 a.m. and from 3:30 p.m. to 5:30 p.m., Monday through Friday, except Federal holidays:

(i) Need not open for the passage of recreational or commercial vessels that do not qualify under paragraph (b)(2)(ii) of this section.

(ii) Need not open for commercial cargo vessels, including tugs and tows, unless 2 hours advance notice has been given to the Jordan Bridge Office at (757) 545-4695.

(3) Shall open on signal at all other times.

(c) The draw of the Norfolk and Western railroad bridge across the South Branch of the Elizabeth River, mile 3.6 at Portsmouth-Chesapeake, shall be maintained in the open position; except the draw may close for the crossing of trains and maintenance of the bridge. When the draw is closed, a

COAST PILOT 4 (Continued)

drawtender shall be present and the draw shall open on signal.

(d) The draw of the Gilmerton (US13/460) bridge, mile 5.8, in Chesapeake:

(1) Shall open on signal at any time for commercial vessels carrying liquified flammable gas or other hazardous materials.

(2) From 6:30 a.m. to 8:30 a.m. and from 3:30 to 5:30 p.m., Monday through Friday, except Federal holidays:

(i) Need not open for the passage of recreational or commercial vessels that do not qualify under paragraph (d)(2)(ii) of this section

(ii) Need not open for commercial cargo vessels, including tugs, and tugs with tows, unless 2 hours advance notice has been given to the Gilmerton Bridge at (757) 545-1512.

(3) Shall open on signal at all other times.

(e) The draw of the I-64 bridge across the South Branch of the Elizabeth River, mile 7.1 at Chesapeake, shall open on signal if at least 24 hours notice is given.

(f) The draw of the Dominion Boulevard (US 17) bridge, mile 8.8, in Chesapeake:

(1) Shall open on signal at any time for commercial vessels carrying liquified flammable gas or other hazardous materials.

(2) From 6:30 a.m. to 8:30 a.m. and from 4 p.m. to 6 p.m., Monday through Friday, except Federal holidays:

(i) Need not open for the passage of recreational or commercial vessels that do not qualify under paragraph (f)(2)(ii) of this section.

(ii) Need not open for commercial cargo vessels, including tugs, and tugs with tows, unless 2 hours advance notice has been given to the Dominion Boulevard bridge at (757) 547-0521.

(3) From Memorial Day to Labor Day, from 8:30 a.m. to 4 p.m., Monday through Friday, except Federal holidays, the draw need be opened only every hour on the half-hour.

(4) If any vessel is approaching the bridge and cannot reach the draw exactly on the half hour, the drawtender may delay the opening up to ten minutes past the half hour for the passage of the approaching vessel and any other vessels that are waiting to pass.

(5) Shall open on signal at all other times.

(g) The draw of the S168 bridge, mile 12 at Chesapeake (Great Bridge), shall open on signal; except that, from 6 a.m. to 7 p.m., the draw need be opened only on the hour. If any vessel is approaching the bridge and cannot reach the draw exactly on the hour, the drawtender may delay the hourly opening up to 10 minutes past the hour for the passage of the approaching vessel and any other vessels that are waiting to pass. Vessels in an emergency condition which presents danger to life or property shall be passed at any time.

(h) The draw of the Albemarle & Chesapeake Railroad bridge, mile 13.9, in Chesapeake, Virginia, shall be maintained in the open position; the draw may close only for the crossing of trains and maintenance of the bridge. When the draw is closed, a bridgetender shall be present to reopen the draw after the train has cleared the bridge.

(i) The draw of the Centerville Turnpike (SR 170) bridge

across the Albemarle and Chesapeake Canal, mile 15.2, at Chesapeake:

(1) Shall open on signal at any time for commercial vessels carrying liquified flammable gas or other hazardous materials.

(2) From 6:30 a.m. to 8:30 a.m. and from 4 p.m. to 6 p.m., Monday through Friday, except Federal holidays:

(i) Need not open for the passage of recreational or commercial vessels that do not qualify under paragraph (i)(2)(ii) of this section.

(ii) Need not open for commercial cargo vessels, including tugs, and tugs with tows, unless 2 hours advance notice has been given to the Centerville Turnpike bridge at (757)547-3632.

(3) From 8:30 a.m. to 4 p.m., Monday through Friday, except Federal holidays, the draw need only be opened on the hour and half hour.

(4) If any vessel is approaching the bridge and cannot reach the draw exactly on the hour or half hour, the drawtender may delay the opening ten minutes past the hour or half hour for the passage of the approaching vessel and any other vessels that are waiting to pass.

(5) Shall open on signal at all other times.

(33 CFR 117.997; FR 10/16/03; CL 1647/03) 51/03

COAST PILOT 4**35 Ed 2003****Change No. 19**

Page 115—Paragraph 1535, line 1; read:

(1) Vessels 300 gross tons or less, except for foreign vessels ...

(FR 11/10/03; CL 1732/03) 51/03

Page 116—Paragraph 1581, line 7; read:

estimated arrival and departure date for each destination of the voyage.

(FR 11/10/03; CL 1732/03) 51/03

Page 118—Paragraph 1594, line 1; read:

(c) *Seventh Coast Guard District*. Those foreign vessels ...

(FR 11/10/03; CL 1732/03) 51/03

Page 118—Paragraph 1602; read:

(3) Times for submitting NOAs are as follows:

If your voyage time is—	You must submit an NOA—
(i) 96 hours or more; or	At least 96 hours before entering the port or place of destination; or
(ii) Less than 96 hours	Before departure but at least 24 hours before entering the port or place of destination.

(FR 11/10/03; CL 1732/03)

51/03

COAST PILOT 5**31 Ed 2004****NEW EDITION**

(NOS)

51/03

SECTION II

NM 51/03

COAST PILOT 6

33 Ed 2003

**Change No. 21
LAST NM 48/03**

Page 192—Paragraph 159, lines 1 to 9; read:

In June 2003, the controlling depths were 18.1 feet (18.9 feet at midchannel) in the entrance and between the piers to the lower turning basin, with 18.7 feet in the west half of the basin and shoaling to 7.3 feet in the east half. The channel under the swing bridge just above the turning basin has depths of 13.4 feet under the E draw and 18 feet under the W draw, thence 16.7 feet (18.0 feet at midchannel) to the upper turning basin, with 14.6 to 20.0 feet in the upper basin, thence 11.3 feet (12.2 feet at midchannel) to the head of the project. The W section ...

(BPs 181417-18)

51/03

Page 234—Paragraph 310, lines 1 to 5; read:

In April 2003, the controlling depths were, 13.2 feet (22.3 feet at midchannel) in the entrance and outer basin channels to the piers, thence 17.9 feet (19 feet at midchannel) to the turning basin with 14.6 to 18 feet in the basin, thence 7.6 feet (11.4 feet at ...

(BPs 181250-51)

51/03

COAST PILOT 7

35 Ed 2003

**Change No. 18
LAST NM 48/03**

Page 133—Paragraph 1899, line 1; read:

(1) Vessels 300 gross tons or less, except for foreign vessels ...

(FR 11/10/03; CL 1732/03)

51/03

Page 135—Paragraph 1945, line 7; read:

estimated arrival and departure date for each destination of the voyage.

(FR 11/10/03; CL 1732/03)

51/03

Page 136—Paragraph 1958, line 1; read:

(c) *Seventh Coast Guard District*. Those foreign vessels

...

(FR 11/10/03; CL 1732/03)

51/03

Page 136—Paragraph 1966; read:

(3) Times for submitting NOAs are as follows:

If your voyage time is—	You must submit an NOA—
(i) 96 hours or more; or	At least 96 hours before entering the port or place of destination; or
(ii) Less than 96 hours	Before departure but at least 24 hours before entering the port or place of destination.

(FR 11/10/03; CL 1732/03)

51/03

Page 426—Paragraph 191, line 3; read:

In November 2001, the controlling depth was 35 feet.

(BP 176153)

51/03

COAST PILOT 8

25 Ed 2003

**Change No. 12
LAST NM 48/03**

Page 63—Paragraph 400, line 1; read:

(1) Vessels 300 gross tons or less, except for foreign vessels ...

(FR 11/10/03; CL 1732/03)

51/03

Page 65—Paragraph 446, line 7; read:

estimated arrival and departure date for each destination of the voyage.

(FR 11/10/03; CL 1732/03)

51/03

Page 65—Paragraph 459, line 1; read:

(c) *Seventh Coast Guard District*. Those foreign vessels

...

(FR 11/10/03; CL 1732/03)

51/03

Page 67—Paragraph 467; read:

(3) Times for submitting NOAs are as follows:

If your voyage time is—	You must submit an NOA—
(i) 96 hours or more; or	At least 96 hours before entering the port or place of destination; or
(ii) Less than 96 hours	Before departure but at least 24 hours before entering the port or place of destination.

(FR 11/10/03; CL 1732/03)

51/03

COAST PILOT 9

21 Ed 2003

**Change No. 15
LAST NM 48/03**

Page 63—Paragraph 394, line 1; read:

(1) Vessels 300 gross tons or less, except for foreign vessels ...

(FR 11/10/03; CL 1732/03)

51/03

Page 65—Paragraph 440, line 7; read:

estimated arrival and departure date for each destination of the voyage.

(FR 11/10/03; CL 1732/03)

51/03

Page 65—Paragraph 453, line 1; read:

(c) *Seventh Coast Guard District*. Those foreign vessels

...

(FR 11/10/03; CL 1732/03)

51/03

Page 65—Paragraph 461; read:

(3) Times for submitting NOAs are as follows:

If your voyage time is—	You must submit an NOA—
(i) 96 hours or more; or	At least 96 hours before entering the port or place of destination; or
(ii) Less than 96 hours	Before departure but at least 24 hours before entering the port or place of destination.

(FR 11/10/03; CL 1732/03)

51/03

Qalhat Terminal Operating Limitations			
	Wind speed	Wave height	Visibility
LNG Jetty			
Berthing	25 knots	2.0m	1 mile
Cargo operations	35 knots	2.0m	—
Unberthing	25 knots	2.0m	—
MOF Jetty			
Berthing	25 knots	1.0m	1 mile
Cargo operations	35 knots	1.0m	—
Unberthing	25 knots	1.0m	—

Mina Qabus—Berthing Facilities (2003)			
Berth	Length	Depth	Remarks
No. 1	286m	13.0m	Multi-purpose berth. See Note.
No. 2	183m	13.0m	Multi-purpose berth. See Note.
No. 3	228m	11.0m	Bulk cargo.
No. 4	183m	10.9m	Containers. See Note.
No. 5	183m	10.9m	Containers. See Note.
No. 6	198m	9.7m	General cargo.
No. 7	183m	9.6m	General cargo. See Note.
No. 8	183m	9.6m	General cargo. See Note.
No. 9	122m	4.0m	Private berth.
No. 10	183m	4.0m	Private berth.
No. 11	183m	9.0m	Private berth.
No. 12	160m	8.0m	Private berth.
No. 13	152m	2.0m	Private berth.

Note.—These berths are in line. Larger vessels can occupy part of a second berth, if necessary.

Umm al Qaywayn—Berthing Information (2003)			
Berth	Length	Depth	Remarks
Deep Water Wharf			
No. 1	130m	5.5m	Vessels up to 30,000 gross tons, with a maximum length of 210m and a maximum draft of 9.8m, can be accommodated.
No. 2	115m	7.5m	
No. 3	200m	9.5m	
No. 4	400m	10.0m	
Town Wharf	800m	4.0m	Vessels up to 1,000 gross tons, with a maximum length of 60m, can be accommodated.

PUB 172

Fath Oil Terminal—Berthing Limitations (2003)				
SPM	Vessel size	Maximum vessel		Remarks
		Length	Draft	
No. 1	70,000-300,000 dwt	365.8m	30.5m	Vessels up to 350,000 dwt may be accepted from May to October at the discretion of the terminal.
No. 2	50,000-300,000 dwt	365.8m	30.5m	

PUB 172

Jazirat Das—Berthing Limitations (2003)				
Berth	Vessel size	Vessel length	Maximum draft	
			Berthing	Sailing
No. 2	16,000-265,000 dwt (See Note 1)	167.9-350.5m	17.07m	19.51m
No. 3	500,000 dwt	Minimum length of 244m	22.0m	24.0m
No. 4	100,000 dwt	LNG: 180-300m LPG: 140-260m Pentane: 135-300m	14.0m (See Note 2)	
No. 5	8,500 dwt	Maximum length of 130m	10.0m	

Note 1.—168,000 dwt partially loaded.
Note 2.—Minimum draft allowed is 2.7m.

SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME II LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
550	NOAA Data Lighted Buoy 44014 (ODAS)	36 36 40 N 74 50 11 W	Fl (4) Y 20s			Yellow disc-shaped hull.	Maintained by NOAA.
		*					*
30460 40025	LOWER SWASH CHANNEL RANGE FRONT LIGHT	33 55 51 N 77 59 05 W	Q W (day) Q W (night)	17 20		On multi-pile structure.	Lighted throughout 24 hours. Day: Visible on rangeline only. Night: Visible all around; higher intensity on rangeline.
		*	*	*		*	*
30465 40030	LOWER SWASH CHANNEL RANGE REAR LIGHT 767 yards, 055.1° from front light.		Iso W 6s (day) Iso W 6s (night)	28 31		On multi-pile structure.	Lighted throughout 24 hours. Day: Visible on rangeline only. Night: Visible all around; higher intensity on rangeline.
		*	*	*		*	*
30535 39950	HORSESHOE SHOAL CHANNEL RANGE FRONT LIGHT	33 56 35 N 77 57 49 W	Q W (day) Q W (night)	20 23		On skeleton tower.	Visible all around; higher intensity on range line. Lighted throughout 24 hours.
						*	51/03
30540 39955	HORSESHOE SHOAL CHANNEL RANGE REAR LIGHT 1,482 yards, 203.1° from front light.		Iso W 6s (day) Iso W 6s (night)	45 48		On skeleton tower.	Visible on range line only. Lighted throughout 24 hours.
		*					51/03
30560 39940	REAVES POINT CHANNEL RANGE REAR LIGHT 1,400 yards, 185.4° from front light.		Iso W 6s	42		KWR on skeleton tower.	
						*	51/03
30755	KEG ISLAND RANGE FRONT LIGHT	34 07 47 N 77 56 05 W	Q W (day) Q W (night)	19 22		On multi-pile structure. Same structure as Big Island Upper South Range Front Light.	Lighted throughout 24 hours. Day: Visible on rangeline only. Night: Visible all around; higher intensity on rangeline.
		*	*	*		*	*
30760	KEG ISLAND RANGE REAR LIGHT 622 yards, 002.7° from front light.		Iso W 6s (day) Iso W 6 (night)	35 38		Skeleton tower on multi-pile structure.	Lighted throughout 24 hours. Day: Visible on rangeline only. Night: Visible all around; higher intensity on rangeline.
		*	*	*		*	*
30775	BIG ISLAND LOWER SOUTH RANGE FRONT LIGHT	34 07 26 N 77 56 02 W	Q W (day) Q W (night)	29 32		Skeleton tower on multi-pile structure.	Visible on range line only. Lighted throughout 24 hours. Day: Visible on rangeline only. Night: Visible all around; higher intensity on rangeline.
		*	*	*		*	*
30780	BIG ISLAND LOWER SOUTH RANGE REAR LIGHT 300 yards, 151.2° from front light.		Iso W 6s (day) Iso W 6s (night)	34 37		Skeleton tower on multi-pile structure.	Visible on range line only. Lighted throughout 24 hours. Day: Visible on rangeline only. Night: Visible all around; higher intensity on rangeline.
		*	*	*		*	51/03

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Denotes a new entry when preceding the station number.

SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME II LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
30783	BIG ISLAND LOWER NORTH RANGE FRONT LIGHT	34 08 21 N 77 56 37 W	Fl G 2.5s (day) Fl G 2.5s (night)	16 19		On multi-pile structure.	Lighted throughout 24 hours. Day: Visible on rangeline only. Night: Visible all around; higher intensity on rangeline.
		*	*	*		*	*
							51/03
30784	BIG ISLAND LOWER NORTH RANGE REAR LIGHT 166 yards, 331.2° from front light.		Oc G 4s (day) Oc G 4s (night)	30 33		Skeleton tower on multi-pile structure.	Lighted throughout 24 hours. Day: Visible on rangeline only. Night: Visible all around; higher intensity on rangeline.
		*	*	*		*	*
							51/03
30796	BIG ISLAND UPPER NORTH RANGE FRONT LIGHT	34 08 41 N 77 57 11 W	Iso G 2s (day) Iso G 2s (night)	18 21		On multi-pile structure.	Lighted throughout 24 hours. Day: Visible on rangeline only. Night: Visible all around; higher intensity on rangeline.
		*	*	*		*	*
							51/03
30797	BIG ISLAND UPPER NORTH RANGE REAR LIGHT 101 yards, 313.8° from front light.		Iso G 6s (day) Iso G 6s (night)	30 33		Skeleton tower on multi-pile structure.	Lighted throughout 24 hours. Day: Visible on rangeline only. Night: Visible all around; higher intensity on rangeline.
		*	*	*		*	*
							51/03
30800	BIG ISLAND UPPER SOUTH RANGE FRONT LIGHT	34 07 47 N 77 56 05 W	Q W (day) Q W (night)	19 22		On multi-pile structure. On same structure as Keg Island Channel Range Front light.	Visible on range line only. Lighted throughout 24 hours. Day: Visible on rangeline only. Night: Visible all around; higher intensity on rangeline.
		*	*	*		*	*
							51/03
30805	BIG ISLAND UPPER SOUTH RANGE REAR LIGHT 400 yards, 151.2° from front light.		Iso W 6s (day) Iso W 6s (night)	32 35		Skeleton tower on multi-pile structure.	Visible on range line only. Lighted throughout 24 hours. Day: Visible on rangeline only. Night: Visible all around; higher intensity on rangeline.
		*	*	*		*	*
							51/03
Cape Fear River							
30925	FOURTH EAST JETTY RANGE FRONT LIGHT	34 09 57 N 77 57 33 W	Q W (Day) Q W (Night)	13 16		Skeleton tower on multi-pile structure.	Lighted throughout 24 hours. Day: Visible on rangeline only. Night: Visible all around; higher intensity on rangeline.
		*	*	*		*	
							51/03
30930	FOURTH EAST JETTY RANGE REAR LIGHT 173 yards, 183.7° from front light.		Iso W 6s (Day) Iso W 6s (Night)	36 39		Skeleton tower on multi-pile.	Lighted throughout 24 hours. Day: Visible on rangeline only. Night: Visible all around; higher intensity on rangeline.
		*	*	*			
							51/03
38460	- LIGHT 5		Fl G 4s	15	4	SG on pile.	
					*		
							51/03
39940 30560	REAVES POINT CHANNEL RANGE REAR LIGHT 1,400 yards, 185.4° from front light.		Iso W 6s	42		KWR on skeleton tower.	
						*	
							51/03

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SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME II LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
39950 30535	HORSESHOE SHOAL CHANNEL RANGE FRONT LIGHT	33 56 36 N 77 57 48 W	Q W (day) Q W (night)	20 23		On skeleton tower.	Visible all around; higher intensity on range line. Lighted throughout 24 hours.
					*		51/03
39955 30540	HORSESHOE SHOAL CHANNEL RANGE REAR LIGHT 1,482 yards, 203.1° from front light.		Iso W 6s (day) Iso W 6s (night)	45 48		On skeleton tower.	Visible on range line only. Lighted throughout 24 hours.
		*					51/03
40025 30460	LOWER SWASH CHANNEL RANGE FRONT LIGHT	33 55 51 N 77 59 05 W	Q W (day) Q W (night)	17 20		On multi-pile structure.	Lighted throughout 24 hours. Day: Visible on rangeline only. Night: Visible all around; higher intensity on rangeline.
		*	*	*	*	*	*
40030 30465	LOWER SWASH CHANNEL RANGE REAR LIGHT 767 yards, 055.1° from front light.		Iso W 6s (day) Iso W 6s (night)	42		Skeleton tower on multi-pile structure.	Lighted throughout 24 hours. Day: Visible on rangeline only. Night: Visible all around; higher intensity on rangeline.
		*	*		*		*
*40223	- Buoy 46A					Red nun with yellow triangle.	
							51/03

CORRECTIONS TO C. G. LIGHT LIST, VOLUME III LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
7115	ST. JOHNS BAR CUT RANGE FRONT LIGHT	30 24 14 N 81 25 40 W	Fl W 2.5s (Day) Fl W 2.5s (Night)	22 19		On tower on piles	Visible 0.5° each side of rangeline (Day). Visible 1.5° each side of rangeline (Night).
					*		51/03

CORRECTIONS TO C. G. LIGHT LIST, VOLUME IV LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
12360	- LIGHT 2 50 feet outside channel limit.	29 24 16 N 89 18 35 W	Fl R 2.5s	17	4	TR on pile.	Ra ref.
		*					51/03
*13193	FREEPORT-MCMORAN DOCK LIGHT	29 27 46 N 89 41 11 W	Fl R 2.5s	12		On dock.	Private aid.
							51/03
13205	FREEPORT INTAKE WHARF LIGHT RDB mile 39.4.	29 28 41 N 89 41 24 W	Fl G 2.5s				Private aid.
		*					51/03

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Denotes a new entry when preceding the station number.

SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME IV LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
16193	FREEPORT-MCMORAN SULPHUR DOCK LIGHT						Remove from list. * 51/03

CORRECTIONS TO C. G. LIGHT LIST, VOLUME VI LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
*3	Imperial Beach Research Lighted Buoy.	32 32 12 N 117 11 06 W	Fl Y 4s			Yellow.	Private aid. Ra ref. * 51/03
2825	- CHANNEL LIGHT 10	33 44 03 N 118 05 38 W	Fl R 4s	15	4	TR on dolphin.	51/03
2826	- CHANNEL LIGHT 11	33 44 03 N 118 05 34 W	Fl G 2.5s	19	4	SG on pile.	51/03
			*				
	Long Beach Harbor						
2845	LONG BEACH BREAKWATER EAST END LIGHT 1	33 43 23 N 118 08 13 W	Fl G 6s	43	5	SG on skeleton tower.	HORN: 1 blast ev 15s (2s bl). * 51/03
2872	- Lighted Mooring Buoy PT	33 44 55 N 118 10 17 W	Fl W 4s			White with blue band.	Private aid. * 51/03
3119	- Articulated Light 13						Remove from list. * 51/03
3122	- RANGE FRONT LIGHT	33 43 10 N 118 16 17 W	F Y	45		On skeleton tower.	Lighted throughout 24 hours. * 51/03
			*				
	*Delete Heading: *San Pedro East Channel						
3260	- Lighted Buoy 2						Remove from list. * 51/03
	Channel Islands Harbor						
3630	- BREAKWATER SOUTH LIGHT 1	34 09 16 N 119 13 49 W	Fl G 6s	54	6	SG on square platform on white column.	51/03
			*				

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Denotes a new entry when preceding the station number.

SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME VI LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
3640	- SOUTH JETTY LIGHT 2	34 09 22 N 119 13 39 W	FIR 2.5s	35		Rectangular concrete.	HORN: 1 blast ev 15s (1s bl). The fog signal can be activated upon request to the Coast Guard via VHF-FM Ch 16.
		*					51/03
3645	- NORTH JETTY LIGHT 3	34 09 26 N 119 13 42 W	FIG 4s	35	6	SG on square platform on white column.	
		*					51/03
3685	- BREAKWATER SOUTH LIGHT 3	34 14 45 N 119 16 24 W	FIG 2.5s	26	5	SG on post.	
		*					51/03
3695	- North Jetty Daybeacon	34 14 52 N 119 16 02 W				NW on concrete pile.	
		*					51/03
*3877	Morro Bay Rough Bar Warning Light	35 22 15 N 120 51 32 W	QY (2)	17		NW on pier worded ROUGH BAR. Lights extinguished for lesser sea conditions, but with no guarantee that bar is safe.	Lights flash when seas exceed four feet in height.
							51/03
3885	- Daybeacon 12	35 22 00 N 120 51 18 W				TR on pile.	
		*					51/03
3890	- Daybeacon 14	35 21 45 N 120 51 13 W				TR on pile.	
		*					51/03
4000	- HARBOR ENTRANCE RANGE FRONT LIGHT	36 48 34 N 121 47 08 W	QG	15		KRW on red pile.	Visible 5° each side of rangeline.
		*					51/03
4030	- HARBOR CHANNEL LIGHT 4	36 48 30 N 121 47 11 W	FIR 4s	15	3	TR on pile.	
		*					51/03
4035	- Harbor Channel Daybeacon 5	36 48 31 N 121 47 06 W				SG on pile.	
		*					51/03
4045	- HARBOR CHANNEL LIGHT 8	36 48 28 N 121 47 08 W	FIR 2.5s	15	3	TR on pile.	
		*					51/03
6025	- Entrance Channel Daybeacon 11	38 05 50 N 122 26 57 W				SG on pile.	
		*					51/03

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SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME VI LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
6040	- ENTRANCE CHANNEL LIGHT 14	38 06 19 N 122 27 17 W	Fl R 4s	20	4	TR on white column.	
		*					51/03
6045	- Entrance Channel Daybeacon 15	38 06 34 N 122 27 57 W				SG on pile.	
		*					51/03
6055	- Entrance Channel Daybeacon 17	38 06 37 N 122 28 26 W				SG on pile.	
		*					51/03
6060	- ENTRANCE CHANNEL LIGHT 18	38 06 40 N 122 28 26 W	Fl R 6s	10	4	TR on pile.	Ra ref.
		*					51/03
6065	- Entrance Channel Daybeacon 19	38 06 37 N 122 29 08 W				SG on pile.	
		*					51/03
6070	- ENTRANCE CHANNEL LIGHT 20	38 06 41 N 122 29 07 W	Fl R 4s	15	4	TR on pile.	
		*					51/03
6075	- Buoy 2	38 11 51 N 122 33 41 W				Red nun.	
		*					51/03
6080	- Buoy 4	38 11 54 N 122 33 49 W				Red nun.	
		*					51/03
6085	- Daybeacon 5	38 12 13 N 122 34 11 W				SG on pile.	
		*					51/03
6235	- LIGHT 22	38 02 56 N 122 11 01 W	Fl R 6s	20	4	TR on pile.	
		*					51/03
6240	- LIGHT 23	38 02 37 N 122 10 03 W	Fl G 4s	20	3	SG on pile.	
		*					51/03
7690	- LIGHT 9	38 28 25 N 121 31 24 W	Fl G 4s	15	3	SG on pile.	
		*					51/03
7715	- LIGHT 10	38 30 46 N 121 30 38 W	Fl R 4s	25	3	TR on pile.	
		*					51/03

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SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME VI LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
7740	- LIGHT 12	38 32 45 N 121 30 38 W	Fl R 4s	25	3	TR on dolphin.	
		*					51/03
	*Delete Note:						
			<i>*Aids mark channel edge unless otherwise indicated.</i>				
29945	- Entrance Lighted Buoy 1	28 11 54 N 177 21 22 W	Fl G 2.5s			Green.	
		*	*				51/03
29950	- RANGE FRONT LIGHT	28 13 52 N 177 21 17 W	Q W	25		KRW on pile structure.	
		*					51/03
29960	- Entrance Buoy 2	28 12 43 N 177 21 28 W				Red nun.	
		*	*				51/03
29965	- Buoy 3					Green can.	
		*					51/03
29970	- Buoy 4					Red nun.	
		*					51/03
29975	- Buoy 5 Marks tip of shoal.					Green can.	
		*					51/03
29985	- Buoy 8					Red nun.	
		*					51/03
30000	Midway Basin Channel Buoy 2 Marks shoal.	28 12 44 N 177 21 28 W				Red nun.	
		*					51/03
30005	Midway Inner Basin Junction Buoy B	28 12 47 N 177 21 20 W				Green can with red band.	
		*					51/03

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SECTION II

CORRECTIONS TO PUB 111, LIST OF LIGHTS, 2003 EDITION							
(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
*570 -Dolphin.		4° 34.4' S 81° 16.9' W	F.R.		3		51/03
*577 -Range, front.		4° 35.5' S 81° 17.4' W	F.G.				51/03
*578 -Rear, 140 meters 115°40' from front.		4° 35.6' S 81° 17.3' W	F.G.				51/03
5188 -Cape Campbell. K 4274		41° 43.8' S 174° 16.5' E	Fl.W. period 15s fl. 0.3s, ec. 14.7s	155 47	19	White iron tower, black bands; 73.	Obscured on bearings more than 010°. Reserve light range 10M. Radio beacon about 0.46 mile SSW.
		*		*			51/03
CORRECTIONS TO PUB 112, LIST OF LIGHTS, 2003 EDITION							
(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
*195.5 Zaliv Chayvo. F 7920		52° 21.5' N 143° 11.4' E	Fl.W. period 6s	92 28	15	White octagonal tower; 79.	Reserve light range 7M. Radio beacon.
							51/03
*15410 -Smirnova. F 8129		59° 54.3' N 166° 23.9' E	Fl.W. period 8s		18		Visible 040°-194°. Radio beacon.
							51/03
CORRECTIONS TO PUB 113, LIST OF LIGHTS, 2003 EDITION							
(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
*12058 -Bodulas, islet, SW. E 2749		44° 47.4' N 13° 56.6' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	5	STARBOARD (A) G, tower; 23.	Visible 278°-142°.
							51/03
12560 -Misnjak. E 2942.4		44° 42.0' N 14° 52.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Red round tower on white submerged base; 16.	Obscured 288°-132°.
					*		51/03
12564 -Luka Misnjak. E 2942.5		44° 42.5' N 14° 51.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	20 6	3	White tower, column and gallery;	Visible 254°-016°. 13.
					*		51/03
*13164.4 ---Breakwater, head. E 3232.5		43° 45.1' N 15° 44.8' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	4	Green tower, column and gallery; 16.	Visible 273°-136°.
							51/03

Note: Asterisks (*) indicate that column(s) in which a correction has been made or new information added.
Denotes a new entry when preceding the station number.

SECTION II

CORRECTIONS TO PUB 113, LIST OF LIGHTS, 2003 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
14100 -Ostri Rt. <i>E 3620</i>		42° 23.6' N 18° 32.2' E	L.FI.(2)W. period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	240 73	15	Red tower on house; 7.	
	*				*	*	51/03
17388 -Salipazari Rihlimi. <i>E 4903.7</i>		41° 01.7' N 28° 59.3' E	Fl.(3)G. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 4s	42 13	10	Metal tower, green band; 33.	
		*			*	*	51/03
17528 Igneada Burnu. <i>E 4966</i>		41° 53.2' N 28° 03.5' E	Fl.(2)W. period 15s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 9.7s	144 44	20	White masonry tower, dwelling; 26.	
	*						51/03
18768 - Gavan'Schmidta Range, <i>E 5512</i> front.						Remove from list.	
						*	51/03
18772 - Rear, 1400 meters 338°30' <i>E 5512.1</i> from front.						Remove from list.	
						*	51/03

CORRECTIONS TO PUB 115, LIST OF LIGHTS, 2003 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
HOJDALSFJORD:							
5024 -Alversund, sound, SW. side. <i>L 0290.9</i>		61° 34.6' N 5° 06.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	13 4	2	Lantern on pedestal.	
	*	*				*	51/03
KINN:							
5072 -Ytteroyan. <i>L 0298</i>		61° 34.0' N 4° 41.0' E	Fl.(3)W. period 60s fl. 0.5s, ec. 6s fl. 0.5s, ec. 6s fl. 0.5s, ec. 46.5s	184 56	20	Red iron tower, white band; 102.	
	*						51/03
5076 -Ternehaug. <i>L 0300</i>		61° 34.0' N 4° 42.0' E	Iso.W.R.G. period 6s	72 22	W. 8 R. 5 G. 5	Framework tower.	G. 053°-074°, W.-092°, R.-104°, G.-183°, W.-197°, R.-226°30', G.-238°, R.-242°, G.-281°30', W.-283°30', R.-290°.
	*	*				*	51/03

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SECTION II

CORRECTIONS TO PUB 115, LIST OF LIGHTS, 2003 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
5100 -Aesoy sundet. <i>L 0308</i>		61° 35.0' N 4° 47.1' E	Oc.W.R.G. period 6s	28 9	W. 6 R. 4 G. 4	Lantern on piles.	R. 273°-059°, W.-065°, G.-100°, W.-106°, R.-118°.
					*	*	51/03
5116 Faeroybaen, Nekoyosen. <i>L 0312</i>		61° 34.8' N 4° 57.5' E	Iso.G. period 2s	10 3	1	Iron pole.	
					*	*	51/03
5120 Nekoyosen, on Haneholmen. <i>L 0313</i>		61° 35.0' N 4° 57.0' E	Oc.W.R.G. period 6s	30 9	W. 10 R. 7 G. 7	Small hut.	G. 180°-188°30', W.-191°30', R.-199°30', W.-209°, G.-315°, W.-320°30', R.-004°. Shown Jul. 9 - May 28.
					*	*	51/03
5140 Ostre Furusund S., Stangen Beacon. <i>L 0315</i>		61° 34.7' N 5° 00.3' E	Q.G.	16 5	3	Iron post.	Visible 100°-060°.
					*	*	*
5144 -Masholmen. <i>L 0315.4</i>		61° 35.2' N 4° 59.5' E	Q.R.	7 2	2	Lantern on metal column.	Private light.
					*	*	*
5148 Trollskjaeret. <i>L 0315.6</i>		61° 35.2' N 4° 59.6' E	Q.G.	7 2	2	Lantern on metal column.	
					*	*	51/03
5156 Mortingbaen. <i>L 0316</i>							Remove from list.
							*
5160 Svartskjaer. <i>L 0319</i>							Remove from list.
							*
5184 Arebrot. <i>L 0330</i>		61° 37.7' N 4° 59.6' E	Oc.W.R.G. period 6s	23 7	W. 11 R. 8 G. 8	Iron hut.	G. 301°-333°, R.-006°, W.-014°, G.-045°, W.-049°, R.-168°, W.-171°, G.-182°.
					*	*	*
5192 -Arebrotneset. <i>L 0329.8</i>		61° 38.0' N 5° 01.0' E	F.I.R. period 3s	16 5	4	Metal column.	Private light.
					*	*	51/03
5196 -Littleholmen. <i>L 0329.74</i>							Remove from list.
							*
5200 -Store Teroya. <i>L 0329.7</i>		61° 38.0' N 5° 06.0' E	F.I.G. period 3s	26 8	4		Private light.
					*		51/03

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SECTION II

CORRECTIONS TO PUB 115, LIST OF LIGHTS, 2003 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
5236 <i>L 0340</i>	Vassoy, S. point.	61° 37.0' N 4° 52.0' E	Iso.W.R.G. period 2s	21 6	W. 6 R. 4 G. 4	Iron hut on substructure.	G. 268°-281°, W.-287°, R.-073°, G.-108°30', R.-132°.
				*	*	*	* 51/03
5264 <i>L 0348</i>	Koyna.	61° 39.2' N 4° 52.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	10 3	3	Iron perch.	*
				*	*		51/03

CORRECTIONS TO PUB 116, LIST OF LIGHTS, 2003 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
4536 <i>C 2112</i>	Feddet Range, front.						Remove from list.
							*
4540 <i>C 2112.1</i>	-Rear, 260 meters 251° from front.						Remove from list.
							*
4544 <i>C 2122</i>	Roneklint Range, front.						Remove from list.
							*
4548 <i>C 2122.1</i>	-Rear, 649 meters 182° from front.						Remove from list.
							*
5964 <i>C 2658.5</i>	-Ruden.						Remove from list.
							*
							51/03

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Denotes a new entry when preceding the station number.

SECTION II

**PUBLICATIONS AFFECTED BY NOTICE TO MARINERS
THROUGH NM 51/03**

Note: * indicates New Edition/New Publication; ** indicates Publication Canceled; N indicates Not For Sale

NGA Reference No.	Ed.	Notice to Mariners No.		
NOSPBCP8	25	32*,33,34,39,42,48, 51/03		
NOSPBCP9	21	30*,32,33,36,39,42, 48,51/03		
RADIO NAVIGATIONAL AIDS				
RAPUB117	2002	50/02*;13/03		
AMERICAN PRACTICAL NAVIGATOR				
NVPUB9	2002	36/02*;14,38/03		
INTERNATIONAL CODE OF SIGNALS				
CDPUBNV102	2003	20/03*		
WORLD PORT INDEX				
NVPUB150	2000	50/00*;14,15,16,20, 21,41,42,43,44,45, 46,47,48,49,51, 52/01;1,2,5,6,10,11, 12,16,19,21,22,27, 31,32,33,36,39,40, 42,46,49/02;2,7,10, 15,20/03		
DISTANCES BETWEEN PORTS				
NVPUB151	2001	4/02*		
RADAR NAVIGATION AND MANEUVERING BOARD MANUAL				
CDPUBNV1310	2001	51/01*		
SIGHT REDUCTION TABLES (MARINE)				
SRPUB229V1	1970	11/71*		
SRPUB229V2	1970	11/71*		
SRPUB229V3	1970	7/71*		
SRPUB229V4	1970	3/71*		
SRPUB229V5	1970	3/71*		
SRPUB229V6	1970	23/70*		
SIGHT REDUCTION TABLES (AIR)				
SRPUB249V1	2000	4/01*		
SRPUB249V2	1952	46/52*		
SRPUB249V3	1952	46/52*		
CHART NO. 1				
WOBZC1	1997	18/98*		
CHART NO. 4				
WOBZC4	1988	N23/91*		
ATLAS OF PILOT CHARTS				
NVPUB106	2002	42/03*		
NVPUB107	1998	30/99*		
NVPUB109	2001	49/02*		
USCG NAVIGATION RULES				
COMDTM166722D	1999	44/99*;52/00		
NOS TIDE TABLES				
NOSPBTTCWPACIN3	2003	N4/03*		
NOSPBTTECSTNSA3	2003	N4/03*		
NOSPBTTEURAFR3	2003	N4/03*		
NOSPBTWCSTNSA3	2003	N4/03*		
TIDAL CURRENT TABLES				
NOSPBTCTATCSTN3	2003	N4/03*		
NOSPBTCTPACAS3	2003	N4/03*		

SECTION III

NM 51/03

BROADCAST WARNINGS

Details concerning the particulars of the broadcasting of radio navigational warnings may be found in Radio Navigational Aids, Pub. 117.

NAVAREA IV

Messages in force 041200Z December 2003:

2003 series	450(11,26)	456(11,26)	460(GEN)	468(25)
108(26,27)	454(GEN)	458(11)	462(GEN)	
387(GEN)	455(11)	459(11)	466(GEN)	

The summary of all NAVAREA IV messages in force as of 12 December 2002 is given in Section III of NM 52/02. Warnings issued during the subsequent quarters are issued in NM 13/03, 26/03 and 39/03.

NAVAREA IV WARNINGS issued from 261200Z November to 041200Z December 2003.

454/03(11). NATIONAL IMAGERY AND MAPPING AGENCY (NIMA)
BECOMES THE NATIONAL GEOSPATIAL-INTELLIGENCE
AGENCY (NGA).

1. THE NATIONAL IMAGERY AND MAPPING AGENCY (NIMA) OFFICIALLY BECAME THE NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY (NGA) EFFECTIVE 24 NOV.
2. WHILE THE ORGANIZATION NAME HAS CHANGED, DISTRIBUTORS AND CUSTOMERS OF NGA PRODUCTS ARE ADVISED THAT THIS CHANGE HAS NOT AFFECTION THE STRUCTURE OF THE ORGANIZATION OR THE PRODUCT LINE AVAILABLE FROM NGA. PRODUCTS SHOULD CONTINUE TO BE ORDERED AS IN THE PAST.
3. THE AGENCY NAME, INITIALS AND LOGO ON PRODUCTS WILL TRANSITION TO THE NEW VERSION AS PRODUCTS ARE REVISED. ALSO, FOR A TIME THE AGENCY COMMUNICATIONS WILL ACCEPT BOTH NIMA AND NGA ADDRESSING. WEB SITE AND E-MAIL ADDRESSES ARE TRANSITIONING, E.G., FROM NIMA.MIL TO NGA.MIL. NAVIGATION WARNINGS ISSUED BY NGA WILL CONTINUE TO BE ISSUED WITH A NIMA ADDRESS FOR APPROXIMATELY THE NEXT TWO MONTHS UNTIL THE ADDRESSING SYSTEM TRANSITIONS TO NGA.
4. NGA LOOKS FORWARD TO PROVIDING CONTINUED QUALITY SUPPORT TO OUR WORLDWIDE CUSTOMERS.

(261745Z NOV 2003)

455/03(11). FLORIDA-EAST COAST.
CHART 11484 (21ST ED).
CAPE CANAVERAL LIGHT 28-27.6N 080-32.6W UNLIT.

(280640Z NOV 2003)

456/03(11,26). NORTH ATLANTIC. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS:
 - A. 0500Z TO 0459Z COMMENCING DAILY
01 THRU 07 DEC IN AREA BOUND BY
30-45N 080-32W, 30-45N 079-40W,
30-38N 079-40W, 30-34N 080-32W.
 - B. 0500Z TO 0459Z COMMENCING DAILY
01 THRU 07 DEC IN AREA BETWEEN
29-10N 29-20N AND 079-40W 079-50W.
 - C. 1300Z TO 0700Z COMMENCING DAILY
02 THRU 06 DEC IN AREA BETWEEN
30-00N 29-50N AND 081-00W 080-50W.
 - D. 040100Z TO 040400Z DEC IN AREA BOUND BY
30-35N 081-21W, 30-35N 081-00W,
30-00N 081-02W, 30-00N 081-15W.
 - E. 0500Z TO 0459Z COMMENCING DAILY
01 THRU 07 DEC IN AREA BETWEEN
30-50N 31-10N AND 080-40W 080-30W.
2. CANCEL THIS MSG 080559Z DEC.

(281315Z NOV 2003)

457/03. CANCELED.

458/03(11). GULF OF MEXICO. TEXAS.
1. PIPELAYING OPERATIONS IN PROGRESS UNTIL 06 DEC
BY BARGE GULF HORIZON VICINITY TRACKLINE
BETWEEN 29-16N 094-14W AND 29-15N 094-13W .
0.5 MILE BERTH REQUESTED.
2. CANCEL THIS MSG 07 DEC.

(290850Z NOV 2003)

SECTION III

459/03(11). GULF OF MEXICO. ORDNANCE.

1. UNDERWATER ORDNANCE DETONATIONS 050500Z TO 112359Z DEC
IN AREA BOUND BY
30-00.7N 085-38.9W, 29-59.7N 085-36.9W,
29-57.9N 085-38.0W, 29-58.9N 085-40.0W.
2. CANCEL THIS MSG 120059Z DEC.

(290910Z NOV 2003)

460/03(GEN).

1. NAVAREA IV MESSAGES IN FORCE 291000Z NOV 2003. ONLY THOSE MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN.
2003 SERIES: 420(24), 449(11,26), 450(11,26), 454(GEN),
455(11), 456(11,26), 457(GEN), 458(11), 459(11).
2. THE SUMMARY OF ALL NAVAREA IV MESSAGES IN FORCE AS OF 12 DEC 2002 IS GIVEN IN SEC III OF NM 52/02.
WARNINGS ISSUED DURING THE SUBSEQUENT QUARTERS ARE SUMMARIZED IN NM 13/03, 26/03 AND 39/03.
3. CANCEL NAVAREA IV 451/03.

(291010Z NOV 2003)

461/03. CANCELED.

462/03(GEN). GPS SATELLITE SYSTEM.

1. PRN 31 UNUSABLE 041645Z TO 050445Z DEC.
2. CANCEL THIS MSG 050545Z DEC.

(011410Z DEC 2003)

463/03 thru 465/03. CANCELED.

466/03(GEN). VIRGINIA. NAVTEX.

1. NAVTEX STATION CHESAPEAKE OFF AIR
050800Z TO 051100Z DEC.
2. CANCEL THIS MSG 051200Z DEC.

(021825Z DEC 2003)

467/03. CANCELED.

468/03(25). NORTH ATLANTIC.

1. PARTIALLY SUBMERGED OBJECT ADRIFT VICINITY
27-37.5N 055-04.7W AT 022355Z DEC.
2. CANCEL THIS MSG 10 DEC.

(030121Z DEC 2003)

SECTION III

HYDROLANTS

Messages in force 041200Z December 2003:

2000 series	2883(54)	1553(37)	2058(24)	2203(53)	2242(GEN)
2937(38)	2003 series	1606(24)	2111(53)	2204(52,53)	2246(52)
3762(43)	41(37)	1620(53,56)	2116(24)	2209(36)	2247(23)
4265(44)	67(37)	1647(51,52)	2118(57)	2214(53)	2248(24)
2001 series	544(55)	1731(35)	2124(54)	2215(GEN)	2253(24)
611(44)	604(26,27)	1834(22)	2129(24)	2218(GEN)	2254(24)
2700(37)	738(35)	1863(37)	2130(24)	2219(55)	2255(24)
3161(44)	754(37)	1912(55)	2143(52)	2225(52,53)	2257(23,24)
2002 series	867(37)	1944(53)	2144(22)	2226(24)	2258(52)
245(GEN)	1117(37)	1948(24)	2159(57,61)	2227(53)	2260(37)
246(GEN)	1242(24)	1961(37)	2168(57)	2228(52,53)	2261(53)
2203(51)	1291(37)	1995(53)	2175(24)	2233(GEN)	2262(51)
2682(51)	1374(52,53)	1999(23)	2188(52)	2234(53)	
2848(37)	1422(53)	2021(53)	2193(53)	2235(37)	
2869(52)	1472(35)	2031(55)	2200(52)	2240(24)	
2882(54)	1522(51,52)	2054(36,37)	2202(51)	2241(57)	

The summary of all HYDROLANTS in force as of 12 December 2002 is given in Section III of NM 52/02.
Warnings issued during the subsequent quarters are issued in NM 13/03, 26/03 and 39/03.

HYDROLANT WARNINGS issued from 261200Z November to 041200Z December 2003.

2214/03(53). TYRRHENIAN SEA.

1. SURVEY OPERATIONS 28 NOV THRU 17 DEC BY M/V URANIA:
 - A. IN AREA BETWEEN
38-37-12N 38-35-15N AND 015-05-24E 015-07-48E.
 - B. IN AREA BETWEEN
38-38-48N 38-37-48N AND 014-50-36E 014-52-36E.
 - C. IN AREA BETWEEN
39-29-13N 39-25-28N AND 014-16-23E 014-23-48E.
 - D. ALONG TRACKLINE JOINING 38-50-00N 015-25-00E,
38-55-00N 015-20-00E, 39-00-00N 015-10-00E,
39-00-00N 015-00-00E, 39-10-00N 014-50-00E,
39-05-00N 014-35-00E, 39-00-00N 014-25-00E,
39-25-00N 014-15-00E, 39-25-00N 014-05-00E.
- WIDE BERTH REQUESTED.
2. CANCEL HYDROLANT 1780/03(51,52), STATION RESTORED.
3. CANCEL HYDROLANT 2183/03(37), OPERATIONS SUSPENDED.
4. CANCEL THIS MSG 18 DEC.

(261425Z NOV 2003)

2215/03(GEN). NATIONAL IMAGERY AND MAPPING AGENCY (NIMA)
BECOMES THE NATIONAL GEOSPATIAL-INTELLIGENCE
AGENCY (NGA).

1. THE NATIONAL IMAGERY AND MAPPING AGENCY (NIMA) OFFICIALLY BECAME THE NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY (NGA) EFFECTIVE 24 NOV.
2. WHILE THE ORGANIZATION NAME HAS CHANGED, DISTRIBUTORS AND CUSTOMERS OF NGA PRODUCTS ARE ADVISED THAT THIS CHANGE HAS NOT Affected THE STRUCTURE OF THE ORGANIZATION OR THE PRODUCT LINE AVAILABLE FROM NGA. PRODUCTS SHOULD CONTINUE TO BE ORDERED AS IN THE PAST.
3. THE AGENCY NAME, INITIALS AND LOGO ON PRODUCTS WILL TRANSITION TO THE NEW VERSION AS PRODUCTS ARE REVISED. ALSO, FOR A TIME THE AGENCY COMMUNICATIONS WILL ACCEPT BOTH NIMA AND NGA ADDRESSING. WEB SITE AND E-MAIL ADDRESSES ARE TRANSITIONING, E.G., FROM NIMA.MIL TO NGA.MIL. NAVIGATION WARNINGS ISSUED BY NGA WILL CONTINUE TO BE ISSUED WITH A NIMA ADDRESS FOR APPROXIMATELY THE NEXT TWO MONTHS UNTIL THE ADDRESSING SYSTEM TRANSITIONS TO NGA.
4. NGA LOOKS FORWARD TO PROVIDING CONTINUED QUALITY SUPPORT TO OUR WORLDWIDE CUSTOMERS.

(261750Z NOV 2003)

2216/03 and 2217/03. CANCELED.

2218/03(GEN). NORTH ATLANTIC.

11 METER S/V WELSH DRAGON, WHITE HULL, TWO PERSONS ON BOARD, UNREPORTED VICINITY 49-48N 015-07W AT 261800Z NOV. VESSELS IN VICINITY REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE. REPORTS TO MRCC DEN HELDER, TELEX: 4471088, PHONE: 31 900 0111, FAX: 312 2365 8358.

(270740Z NOV 2003)

NM 51/03

SECTION III

2219/03(55). BLACK SEA. MISSILES.

1. HAZARDOUS OPERATIONS 0300Z TO 1600Z DAILY
01 THRU 06 DEC IN AREA BOUND BY
45-06.2N 036-54.3E, 45-02.0N 037-07.1E,
44-24.4N 037-12.8E, 44-16.4N 037-13.1E,
44-15.0N 036-52.4E, 44-16.4N 036-32.0E,
44-24.4N 036-32.6E, 45-02.2N 036-37.8E,
45-06.2N 036-50.6E.
2. CANCEL THIS MSG 061700Z DEC.

(271140Z NOV 2003)

2220/03 thru 2224/03. CANCELED.

2225/03(52,53). STRAIT OF SICILY.

1. PIPELINE OPERATIONS 01 DEC THRU 09 FEB BY
M/V SKANDI INSPECTOR VICINITY OF TRACKLINE
JOINING 37-10N 011-10E, 37-30N 011-40E,
37-40N 012-30E, 37-35N 012-35E,
37-10N 011-50E, 37-00N 011-30E,
37-02N 011-04E. WIDE BERTH REQUESTED.
2. CANCEL THIS MSG 10 FEB 04.

(280820Z NOV 2003)

2226/03(24). BRAZIL-EAST COAST.

CHART 24210 (14TH ED).
SANTA ISABELA LIGHT 10-49.4S 036-56.1W UNLIT.

(281010Z NOV 2003)

2227/03(53). SARDEGNA-EAST COAST. MISSILES. ROCKETS.

1. HAZARDOUS OPERATIONS:
 - A. 0800Z TO 1900Z DAILY 01 THRU 05,
09 THRU 12 AND 15 THRU 19 DEC
IN AREA BOUND BY
40-00N 010-00E, 40-00N 010-30E,
39-10N 010-30E, 39-10N 010-00E,
39-26N 009-38E, 39-38N 009-38E.
 - B. 0800Z TO 1630Z DAILY 01 THRU 05,
09, 11, 16 AND 18 DEC
IN AREA BOUND BY
40-15N 010-00E, 40-15N 011-31E,
40-11N 011-33E, 39-32N 011-38E,
38-52N 011-28E, 39-10N 010-00E,
39-28N 009-38E, 39-43N 009-40E.
 - C. 0800Z TO 1630Z DAILY 01 THRU 05,
09, 11, 16 AND 18 DEC
IN AREA BOUND BY
40-37N 009-50E, 40-40N 010-35E,
40-40N 010-50E, 39-20N 010-50E,
39-20N 009-47E, 39-24N 009-40E.
2. CANCEL THIS MSG 192000Z DEC.

(281400Z NOV 2003)

2228/03(52,53). SARDEGNA-SOUTH COAST. GUNNERY.

1. GUNNERY EXERCISES 0800Z TO 1700Z DAILY
01 THRU 05 DEC IN AREA BOUND BY
38-55-10N 008-42-30E, 38-50-00N 008-48-00E,
38-46-15N 008-48-00E, 38-43-30N 008-41-15E,
38-49-00N 008-26-00E, 38-56-10N 008-26-40E,
38-57-00N 008-37-06E.
2. CANCEL THIS MSG 051800Z DEC.

(281450Z NOV 2003)

2229/03 thru 2232/03. CANCELED.

2233/03(GEN).

1. HYDROLANT MESSAGES IN FORCE 291200Z NOV 2003. ONLY THOSE MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN.
2003 SERIES: 1995(53), 1999(23), 2004(24), 2021(53), 2031(55),
2054(36,37), 2058(24), 2081(36,37,51), 2111(53), 2116(24),
2118(57), 2124(54), 2129(24), 2130(24), 2143(52), 2144(22),
2159(57,61), 2168(57), 2170(24), 2175(24), 2176(55),
2184(53), 2188(52), 2193(53), 2198(52,53), 2199(52,53),
2200(52), 2202(51), 2203(53), 2204(52,53), 2208(52,53),
2209(36), 2214(53), 2215(GEN), 2218(GEN), 2219(55),
2224(24), 2225(52,53), 2226(24), 2227(53), 2228(52,53),
2229(51), 2231(24), 2232(24).
2. THE SUMMARY OF ALL HYDROLANT MESSAGES IN FORCE AS OF 12 DEC 2002 IS GIVEN IN SEC III OF NM 52/02.
WARNINGS ISSUED DURING THE SUBSEQUENT QUARTERS ARE SUMMARIZED IN NM 13/03, 26/03 AND 39/03.
3. CANCEL HYDROLANT 1940/03, 1958/03, 1960/03,
1963/03, 2186/03.

(291210Z NOV 2003)

SECTION III

NM 51/03

2234/03(53). SICILIA-SOUTHEAST COAST. GUNNERY.

1. GUNNERY EXERCISES SUNRISE TO SUNSET DAILY 01 THRU 12,
15 THRU 19, 22, 23, 26, 29 AND 30 DEC
WITHIN 1.5 MILES OF 36-39-19N 015-00-53E.
2. CANCEL THIS MSG 31 DEC.

(291255Z NOV 2003)

2235/03(37). DOVER STRAIT.

CHART 37106 (4TH ED).
RIDENS SOUTHEAST BUOY 50-43N 001-19E UNLIT.

(291310Z NOV 2003)

2236/03 thru 2239/03. CANCELED.

2240/03(24). BRAZIL-EAST COAST.

CHART 24210 (14TH ED).
RADIOBEACON AT SERGIPE LIGHT 10-58.2S 037-02.2W INOPERATIVE.

(010820Z DEC 2003)

2241/03(57). GULF OF GUINEA.

SEISMIC SURVEY IN PROGRESS UNTIL FURTHER NOTICE
BY M/V OCEAN EXPLORER, M/V BERGEN EXPLORER
AND M/V FALCON EXPLORER IN AREA BETWEEN
04-00.0N 04-14.5N AND 008-02.0E 008-12.2E.
WIDE BERTH REQUESTED.

(011050Z DEC 2003)

2242/03(GEN). GPS SATELLITE SYSTEM.

1. PRN 31 UNUSABLE 041645Z TO 050445Z DEC.
2. CANCEL THIS MSG 050545Z DEC.

(011415Z DEC 2003)

2243/03 thru 2245/03. CANCELED.

2246/03(52). TUNISIA-EAST COAST.

1. 250 METER LONG PIPE ADRIFT VICINITY
33-47.0N 011-53.5E AT 011515Z DEC.
2. CANCEL THIS MSG 08 DEC.

(012147Z DEC 2003)

2247/03(23). SOUTH ATLANTIC. ICE.

1. ICEBERGS REPORTED ON 01 DEC:
 - A. A-38A, 22 MILES BY 48 MILES IN 57-54S 040-42W.
 - B. A-38B, 22 MILES BY 25 MILES IN 55-12S 039-54W.
 - C. A-38C, SEVEN MILES BY 11 MILES IN 56-24S 035-42W.
 - D. A-38D, TWO MILES BY TEN MILES IN 56-24S 032-36W.
 - E. A-43B, 13 MILES BY 40 MILES IN 54-24S 039-06W.
 - F. A-43C, 24 MILES BY 41 MILES IN 52-42S 029-24W.
 - G. A-43I, TWO MILES BY 12 MILES IN 53-24S 040-24W.
 - H. A-48, NINE MILES BY TEN MILES IN 57-00S 043-18W.
2. CANCEL THIS MSG 09 DEC.

(020218Z DEC 2003)

2248/03(24). BRAZIL-SOUTH COAST.

1. SEISMIC SURVEY IN PROGRESS UNTIL 060159Z DEC
BY M/V CGG HARMATTAN TOWING SIX 6000 METER
LONG CABLES ALONG TRACKLINE BETWEEN
25-24S 045-06W AND 25-56S 046-00W.
FOUR MILE BERTH REQUESTED.
2. CANCEL HYDROLANT 2170/03.
3. CANCEL THIS MSG 060259Z DEC.

(021010Z DEC 2003)

2249/03 thru 2252/03. CANCELED.

2253/03(24). BRAZIL-SOUTH COAST.

1. SEISMIC SURVEY IN PROGRESS UNTIL 090159Z DEC BY
M/V VERITAS VIKING I TOWING SIX 6000 METER
LONG CABLES IN AREA BOUND BY
24-57.6S 044-58.8W, 24-52.5S 045-07.4W,
24-43.6S 045-00.9W, 24-48.7S 044-52.4W.
FOUR MILE BERTH REQUESTED.
2. CANCEL THIS MSG 090259Z DEC.

(030750Z DEC 2003)

SECTION III

2254/03(24). BRAZIL-NORTH COAST.

1. SEISMIC SURVEY IN PROGRESS UNTIL 090300Z DEC BY
M/V RAMFORM VIKING TOWING EIGHT 6000 METER
LONG CABLES IN AREA BOUND BY
03-08S 038-46W, 02-39S 038-31W,
02-43S 038-23W, 03-12S 038-38W.
FIVE MILE BERTH REQUESTED.
2. CANCEL HYDROLANT 2231/03.
3. CANCEL THIS MSG 090400Z DEC.

(030810Z DEC 2003)

2255/03(24). BRAZIL-SOUTH COAST.

- CHART 24160 (21ST ED).
PONTA NEGRA LIGHT 22-57.6S 042-41.5W UNLIT.

(030920Z DEC 2003)

2256/03. CANCELED.

2257/03(23,24). SOUTH ATLANTIC. ARGENTINA.

- CHART 23145 (3RD ED).
DANGEROUS WRECK VICINITY 36-15S 056-02W.

(031150Z DEC 2003)

2258/03(52). ALGERIA.

- CHART 52240 (9TH ED).
CAP BENGUT LIGHT 36-55N 003-54E UNRELIABLE.

(031402Z DEC 2003)

2259/03. CANCELED.

2260/03(37). NORTH ATLANTIC.

- DISTRESS SIGNAL RECEIVED ON 406 MHZ FROM F/V PLAYA DE ARBEYAL
WITHIN THREE MILES OF 43-13.4N 014-18.8W. VESSELS
IN VICINITY REQUESTED TO KEEP A SHARP LOOKOUT,
ASSIST IF POSSIBLE. REPORTS TO MRCC DEL GARDA.

(040234Z DEC 2003)

2261/03(53). SICILIA-EAST COAST. ORDNANCE.

1. TORPEDO FIRING EXERCISES 050700Z TO 051600Z DEC,
ALTERNATE 060700Z TO 061600Z DEC WITHIN
ONE MILE OF 37-02N 015-35E.
2. CANCEL HYDROLANT 2250/03, OPERATIONS COMPLETED.
3. CANCEL THIS MSG 061700Z DEC.

(040740Z DEC 2003)

2262/03(51). NORTH ATLANTIC.

1. UNDERWATER OPERATIONS IN PROGRESS UNTIL 07 DEC
BY M/V SONNE ALONG TRACKLINE BETWEEN
36-04N 007-22W AND 35-20N 007-20W.
2. CANCEL HYDROLANT 2244/03.
3. CANCEL THIS MSG 08 DEC.

(041110Z DEC 2003)

SECTION III

NM 51/03

NAVAREA XII

Messages in force 041200Z December 2003:

2003 series	351(19)	353(GEN)	358(GEN)	361(18)
	262(GEN)	352(GEN)	356(GEN)	359(83)

The summary of all NAVAREA XII messages in force as of 12 December 2002 is given in Section III of NM 52/02. Warnings issued during the subsequent quarters are issued in NM 13/03, 26/03 and 39/03.

NAVAREA XII WARNINGS issued from 261200Z November to 041200Z December 2003.

352/03(GEN). NATIONAL IMAGERY AND MAPPING AGENCY (NIMA)
BECOMES THE NATIONAL GEOSPATIAL-INTELLIGENCE
AGENCY (NGA).

1. THE NATIONAL IMAGERY AND MAPPING AGENCY (NIMA) OFFICIALLY
BECAME THE NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY (NGA)
EFFECTIVE 24 NOV.
2. WHILE THE ORGANIZATION NAME HAS CHANGED, DISTRIBUTORS AND
CUSTOMERS OF NGA PRODUCTS ARE ADVISED THAT THIS CHANGE
HAS NOT AFFECTED THE STRUCTURE OF THE ORGANIZATION OR
THE PRODUCT LINE AVAILABLE FROM NGA. PRODUCTS SHOULD
CONTINUE TO BE ORDERED AS IN THE PAST.
3. THE AGENCY NAME, INITIALS AND LOGO ON PRODUCTS WILL
TRANSITION TO THE NEW VERSION AS PRODUCTS ARE REVISED.
ALSO, FOR A TIME THE AGENCY COMMUNICATIONS WILL ACCEPT
BOTH NIMA AND NGA ADDRESSING. WEB SITE AND E-MAIL ADDRESSES
ARE TRANSITIONING, E.G., FROM NIMA.MIL TO NGA.MIL.
NAVIGATION WARNINGS ISSUED BY NGA WILL CONTINUE TO BE
ISSUED WITH A NIMA ADDRESS FOR APPROXIMATELY THE NEXT
TWO MONTHS UNTIL THE ADDRESSING SYSTEM TRANSITIONS TO NGA.
4. NGA LOOKS FORWARD TO PROVIDING CONTINUED QUALITY SUPPORT
TO OUR WORLDWIDE CUSTOMERS.

(261755Z NOV 2003)

353/03(GEN). NORTH PACIFIC. RUSSIA.

1. LORAN-C STATION PETROPAVLOVSK, RATE 5980-MASTER, OFF AIR.
2. CANCEL NAVAREA XII 348/03, STATION RESTORED.

(262325Z NOV 2003)

354/03 and 355/03. CANCELED.

356/03(GEN).

1. NAVAREA XII MESSAGES IN FORCE 291000Z NOV 2003. ONLY THOSE
MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN.
2003 SERIES: 351(19), 352(GEN), 353(GEN), 354(18,21),
355(18).
2. THE SUMMARY OF ALL NAVAREA XII MESSAGES IN FORCE
AS OF 12 DEC 2002 IS GIVEN IN SEC III OF NM 52/02.
WARNINGS ISSUED DURING THE SUBSEQUENT QUARTERS
ARE SUMMARIZED IN NM 13/03, 26/03 AND 39/03.
3. CANCEL NAVAREA XII 345/03.

(291020Z NOV 2003)

357/03. CANCELED.

358/03(GEN). GPS SATELLITE SYSTEM.

1. PRN 31 UNUSABLE 041645Z TO 050445Z DEC.
2. CANCEL THIS MSG 050545Z DEC.

(011420Z DEC 2003)

359/03(83). NORTH PACIFIC. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 0600Z TO 0730Z AND 1100Z TO 1230Z
DAILY 05 AND 06 DEC WITHIN 76 MILES OF 06-18N 152-19W.
2. CANCEL NAVAREA XII 354/03(18,21), OPERATIONS COMPLETED.
3. CANCEL THIS MSG 061330Z DEC.

(021515Z DEC 2003)

360/03. CANCELED.

SECTION III

361/03(18). EASTERN NORTH PACIFIC. MISSILES.

1. INTERMITTENT MISSILE FIRING OPERATIONS 0001Z TO 2359Z DAILY MONDAY THRU SUNDAY IN THE NAVAL AIR WARFARE CENTER SEA RANGE. THE MAJORITY OF MISSILE FIRINGS TAKE PLACE 1400Z TO 2359Z AND 0001Z TO 0200Z DAILY MONDAY THRU FRIDAY. THE SEA RANGE IS BOUND AS FOLLOWS:

A. 34-02N 119-04W. M. THENCE THREE NAUTICAL MILES FROM AND PARALLEL

B. 33-52N 119-06W. TO THE SHORELINE.

C. 33-29N 119-07W. N. 34-24N 120-30W.

D. 33-29N 118-37W. O. 34-08N 120-26W.

E. 33-20N 118-37W. P. 34-08N 119-40W.

F. 32-11N 120-16W. Q. 34-00N 119-40W.

G. 31-54N 121-35W. R. 34-06N 119-13W.

H. 35-09N 123-39W. S. 34-06N 119-11W.

I. 35-29N 123-00W. T. 34-07N 119-10W.

J. 35-04N 122-43W. U. 34-07N 119-07W.

K. 35-57N 121-32W. V. 34-04N 119-04W.

L. 34-59N 120-42W.

2. VESSELS MAY BE REQUESTED TO ALTER COURSE WITHIN THE ABOVE AREA DUE TO FIRING OPERATIONS AND ARE REQUESTED TO CONTACT PLEAD CONTROL ON 5081.5 KHZ (5080 KHZ) OR 3238.5 KHZ (3237 KHZ) SECONDARY OR 156.8 MHZ (CH 16) OR 127.55 MHZ BEFORE ENTERING THE ABOVE BOUNDARIES AND MAINTAIN CONTINUOUS GUARD WHILE WITHIN THE RANGE.

3. VESSELS INBOUND AND OUTBOUND FOR SOUTHERN CALIFORNIA PORTS WILL CREATE THE LEAST INTERFERENCE TO FIRING OPERATIONS DURING THE SPECIFIC PERIODS, AS WELL AS ENHANCE THE VESSEL'S SAFETY WHEN PASSING THROUGH THE VICINITY OF THE SEA RANGE. IF THEY WILL TRANSIT VIA THE SANTA BARBARA CHANNEL AND WITHIN NINE MILES OFFSHORE VICINITY OF POINT MUGU OR CROSS THE AREA SOUTHWEST OF SAN NICOLAS ISLAND BETWEEN SUNSET AND SUNRISE.

4. CANCEL NAVAREA XII 355/03.

(041010Z DEC 2003)

SECTION III

NM 51/03

HYDROPACS

Messages in force 041200Z December 2003:

2001 series	801(72)	1688(62)	1890(81)	2028(96)	2079(61)
1976(62)	895(62)	1697(61)	1892(73)	2030(74)	2082(81)
2002 series	960(63)	1699(63)	1893(73)	2039(81,82)	2083(22)
205(GEN)	992(62)	1700(62)	1906(19,97)	2045(95)	2088(GEN)
206(GEN)	993(62)	1732(75)	1911(62)	2046(95)	2090(62)
352(73)	998(71)	1733(75)	1914(96,97)	2047(94,95)	2091(74)
403(72,73)	1041(71)	1734(74)	1928(74)	2048(94,95)	2094(19,97)
2191(22)	1198(92)	1736(63)	1949(74)	2049(94,95)	2095(62)
2199(63)	1213(73)	1745(96)	1951(63)	2050(95)	2096(94,97)
2330(62)	1220(62)	1777(63)	1952(61)	2051(GEN)	2097(75)
2339(63)	1222(62)	1785(96)	1959(76)	2053(GEN)	2098(22,83)
2003 series	1248(63)	1794(62)	1971(72)	2056(81)	2100(81)
167(95)	1266(73)	1801(96)	1973(63)	2057(61)	2101(63)
197(71)	1267(73)	1809(62)	1975(73,74)	2059(97)	2102(63)
207(62)	1330(62)	1819(61)	1979(81)	2061(63)	2103(63)
445(96)	1371(71,93)	1820(61)	1980(76,83)	2062(63)	2104(63)
495(62)	1395(62)	1829(93)	1982(GEN)	2063(96)	2106(73)
496(62)	1398(74)	1834(73,74)	1983(57,61)	2064(63)	2107(73)
506(62)	1485(22)	1837(GEN)	1991(73,74)	2065(81,97)	2108(73)
515(73)	1514(62)	1842(61)	1992(63)	2067(63)	2109(73)
525(73,74)	1518(62)	1843(61)	1998(61)	2068(63)	2110(73)
638(62)	1652(63)	1866(62)	2004(73,74)	2069(GEN)	2111(63)
760(63)	1653(63)	1872(81)	2021(93,94)	2070(81)	2115(73)
761(63)	1655(29)	1887(81)	2027(75)	2071(81,97)	2116(75)

The summary of all HYDROPACS in force as of 12 December 2002 is given in Section III of NM 52/02. Warnings issued during the subsequent quarters are issued in NM 13/03, 26/03 and 39/03.

HYDROPAC WARNINGS issued from 261200Z November to 041200Z December 2003.

2051/03(GEN). NATIONAL IMAGERY AND MAPPING AGENCY (NIMA) BECOMES THE NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY (NGA).

1. THE NATIONAL IMAGERY AND MAPPING AGENCY (NIMA) OFFICIALLY BECAME THE NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY (NGA) EFFECTIVE 24 NOV.
2. WHILE THE ORGANIZATION NAME HAS CHANGED, DISTRIBUTORS AND CUSTOMERS OF NGA PRODUCTS ARE ADVISED THAT THIS CHANGE HAS NOT AFFECTED THE STRUCTURE OF THE ORGANIZATION OR THE PRODUCT LINE AVAILABLE FROM NGA. PRODUCTS SHOULD CONTINUE TO BE ORDERED AS IN THE PAST.
3. THE AGENCY NAME, INITIALS AND LOGO ON PRODUCTS WILL TRANSITION TO THE NEW VERSION AS PRODUCTS ARE REVISED. ALSO, FOR A TIME THE AGENCY COMMUNICATIONS WILL ACCEPT BOTH NIMA AND NGA ADDRESSING. WEB SITE AND E-MAIL ADDRESSES ARE TRANSITIONING, E.G., FROM NIMA.MIL TO NGA.MIL. NAVIGATION WARNINGS ISSUED BY NGA WILL CONTINUE TO BE ISSUED WITH A NIMA ADDRESS FOR APPROXIMATELY THE NEXT TWO MONTHS UNTIL THE ADDRESSING SYSTEM TRANSITIONS TO NGA.
4. NGA LOOKS FORWARD TO PROVIDING CONTINUED QUALITY SUPPORT TO OUR WORLDWIDE CUSTOMERS.

(261759Z NOV 2003)

2052/03. CANCELED.

2053/03(GEN). NORTH PACIFIC. RUSSIA.

1. LORAN-C STATION PETROPAVLOVSK, RATE 5980-MASTER, OFF AIR.
2. CANCEL HYDROPAC 2025/03, STATION RESTORED.

(262339Z NOV 2003)

2054/03 and 2055/03. CANCELED.

2056/03(81). NORTH PACIFIC.

DISTRESS SIGNAL RECEIVED ON 121.5 MHZ
IN 19-19.0N 166-42.2E AT 270300Z NOV.
VESSELS IN VICINITY REQUESTED TO KEEP
A SHARP LOOKOUT, ASSIST IF POSSIBLE.
REPORTS TO RCC HONOLULU, TELEX: 392401,
PHONE: 808 541 2500, FAX: 808 541 2123.

(270329Z NOV 2003)

SECTION III

2057/03(61). INDIAN OCEAN. ORDNANCE.

1. UNDERWATER ORDNANCE DETONATIONS 010001Z TO 312359Z DEC IN AREA BETWEEN 09-00S 13-00S AND 070-00E 073-00E.
2. CANCEL HYDROFAC 2044/03(75) AND 2052/03(75), AIDS RESTORED.
3. CANCEL THIS MSG 010059Z JAN 04.

(270910Z NOV 2003)

2058/03. CANCELED.

2059/03(97). NORTH PACIFIC.

1. SUBMARINE RESEARCH OPERATIONS DURING DAYLIGHT HOURS DAILY 02 THRU 10 DEC BY M/V NATSUSHIMA AND SUBMERSIBLE HYPE-DOLPHIN IN AREA BETWEEN 28-30N 28-40N AND 140-32E 140-44E. WIDE BERTH REQUESTED.
2. CANCEL THIS MSG 11 DEC.

(271155Z NOV 2003)

2060/03. CANCELED.

2061/03(63). INDIA-WEST COAST. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 0330Z TO 1530Z DAILY 01 THRU 09 DEC IN AREA BOUND BY 09-57.6N 075-59.5E, 09-57.7N 076-14.2E, 09-40.0N 076-14.5E, 09-42.5N 076-09.5E.
2. CANCEL THIS MSG 091630Z DEC.

(271250Z NOV 2003)

2062/03(63). NICOBAR ISLANDS.

CHART 63390 (1ST ED). CHOWRA ISLAND LIGHT 08-27.4N 093-02.9E UNLIT.

(271521Z NOV 2003)

2063/03(96). NORTH PACIFIC.

PERSON MISSING FROM F/V STRELKA IN 43-30N 146-12E. VESSELS IN VICINITY REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE. REPORTS TO MRCC VLADIVOSTOK, INMARSAT-C: 4925 00379, TELEX: 213115, PHONE: 742 3222 7782, FAX: 742 3249 5895.

(280007Z NOV 2003)

2064/03(63). INDIA-WEST COAST. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 0230Z TO 1230Z DAILY 01 THRU 07 DEC IN AREA BETWEEN 15-13N 15-11N AND 073-57E 073-52E.
2. CANCEL THIS MSG 071330Z DEC.

(281120Z NOV 2003)

2065/03(81,97). NORTH PACIFIC.

1. SURVEY OPERATIONS 03 THRU 28 DEC BY M/V POLAR DUKE TOWING 6000 METER LONG CABLE IN AREA BOUND BY 25-37.5N 141-51.7E, 25-23.0N 144-15.1E, 24-07.5N 145-19.4E, 20-41.9N 141-01.8E, 15-26.3N 140-09.5E, 14-28.7N 138-30.4E, 22-37.6N 135-16.6E.
2. CANCEL THIS MSG 29 DEC.

(281140Z NOV 2003)

2066/03. CANCELED.

2067/03(63). INDIA-WEST COAST. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 0230Z TO 1130Z DAILY 01 THRU 07 DEC WITHIN 25 MILES OF 14-01.0N 074-19.6E.
2. CANCEL THIS MSG 071230Z DEC.

(282258Z NOV 2003)

2068/03(63). INDIA-EAST COAST. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 0930Z TO 1430Z DAILY 30 NOV THRU 04 DEC IN AREA BOUND BY 17-39.0N 083-19.0E, 17-43.0N 083-19.0E, 17-44.5N 083-23.0E, 17-39.0N 083-23.0E.
2. CANCEL THIS MSG 041530Z DEC.

(282310Z NOV 2003)

SECTION III

NM 51/03

2069/03(GEN).

1. HYDROPAC MESSAGES IN FORCE 291200Z NOV 2003. ONLY THOSE MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN.
2003 SERIES: 1819(61), 1820(61), 1821(83), 1829(93), 1834(73,74), 1837(GEN), 1842(61), 1843(61), 1857(95), 1858(94,95), 1864(61), 1865(95), 1866(62), 1867(94,95), 1868(94,95), 1869(95), 1872(81), 1887(81), 1890(81), 1892(73), 1893(73), 1906(19,97), 1910(71), 1911(62), 1914(96,97), 1928(74), 1936(63), 1949(74), 1951(63), 1952(61), 1959(76), 1960(74), 1962(63), 1971(72), 1973(63), 1975(73,74), 1979(81), 1980(76,83), 1982(GEN), 1983(57,61), 1991(73,74), 1992(63), 1996(74), 1998(61), 2001(63), 2004(73,74), 2005(75), 2021(93,94), 2024(61), 2027(75), 2028(96), 2030(74), 2039(81,82), 2040(63), 2045(95), 2046(95), 2047(94,95), 2048(94,95), 2049(94,95), 2050(95), 2051(GEN), 2053(GEN), 2054(22), 2055(81), 2056(81), 2057(61), 2058(75), 2059(97), 2061(63), 2062(63), 2063(96), 2064(63), 2065(81,97), 2067(63), 2068(63).
2. THE SUMMARY OF ALL HYDROPAC MESSAGES IN FORCE AS OF 12 DEC 2002 IS GIVEN IN SEC III OF NM 52/02. WARNINGS ISSUED DURING THE SUBSEQUENT QUARTERS ARE SUMMARIZED IN NM 13/03, 26/03 AND 39/03.
3. CANCEL HYDROPAC 667/03, 880/03, 1646/03, 1781/03, 1782/03, 1783/03, 1791/03, 1799/03, 1803/03, 1811/03, 2016/03, 2038/03.

(291220Z NOV 2003)

2070/03(81). NORTH PACIFIC.

DISTRESS SIGNAL RECEIVED ON 406 MHZ IN 06-03.8N 148-26.1E AT 290945Z NOV. VESSELS IN VICINITY REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE. REPORTS TO RCC GUAM, TELEX: 392401, PHONE: 671 339 6100.

(291240Z NOV 2003)

2071/03(81,97). NORTH PACIFIC.

1. TWO 12 METER LONG OBJECTS ADRIFT VICINITY 23-48N 134-30E AT 290600Z NOV.
2. CANCEL THIS MSG 06 DEC.

(291250Z NOV 2003)

2072/03 thru 2078/03. CANCELED.

2079/03(61). INDIAN OCEAN.

1. M/V TURICUM DISABLED AND ADRIFT VICINITY 37-49S 072-21E. VESSELS IN VICINITY REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE. REPORTS TO MRCC LA REUNION, INMARSAT-C: 42279 9193, TELEX: 916140, PHONE: 2622 6243 4343, FAX: 2622 6271 1595.
2. CANCEL HYDROPAC 2024/03.

(300747Z NOV 2003)

2080/03 and 2081/03. CANCELED.

2082/03(81). NORTH PACIFIC.

DISTRESS SIGNAL RECEIVED ON 243 MHZ IN 15-34.7N 136-46.8E AT 301445Z NOV. VESSELS IN VICINITY REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE. REPORTS TO U.S. COAST GUARD GUAM, PHONE: 671 339 6100.

(301650Z NOV 2003)

2083/03(22). CHILE. GUNNERY.

1. GUNNERY EXERCISES 041900Z TO 042200Z AND 051500Z TO 051700Z DEC IN AREA BETWEEN 41-58S 42-07S AND 073-13W 072-59W.
2. CANCEL THIS MSG 051800Z DEC.

(302347Z NOV 2003)

2084/03 thru 2087/03. CANCELED.

2088/03(GEN). GPS SATELLITE SYSTEM.

1. PRN 31 UNUSABLE 041645Z TO 050445Z DEC.
2. CANCEL THIS MSG 050545Z DEC.

(011425Z DEC 2003)

2089/03. CANCELED.

2090/03(62). PERSIAN GULF. UNITED ARAB EMIRATES.

CHART 62406 (2ND ED). NAVIGATION PROHIBITED UNTIL FURTHER NOTICE WITHIN THREE MILES OF 25-13.5N 055-10.0E.

(011830Z DEC 2003)

NM 51/03

SECTION III

2091/03(74). AUSTRALIA-WEST COAST.

1. SEISMIC SURVEY IN PROGRESS UNTIL FURTHER NOTICE BY
M/V PACIFIC SWORD TOWING 4.5 MILE LONG CABLE IN
AREA BETWEEN 27-10S 28-00S AND 111-40E 113-00E.
SIX MILE BERTH REQUESTED.
2. CANCEL HYDROPAC 2087/03.

(012115Z DEC 2003)

2092/03 and 2093/03. CANCELED.

2094/03(19,97). JAPAN TO HAWAII.

28 FOOT S/V KENKO MARU, WHITE HULL, ONE PERSON ON BOARD,
UNREPORTED KAGOSHIMA TO HONOLULU. LAST KNOWN POSITION
34-44N 176-28E ON 17 NOV. VESSELS IN VICINITY
REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE.
REPORTS TO RCC HONOLULU, TELEX: 392401,
PHONE: 808 541 2500, FAX: 808 541 2123.

(020810Z DEC 2003)

2095/03(62). PERSIAN GULF. QATAR.

1. SEISMIC SURVEY IN PROGRESS UNTIL FURTHER NOTICE
BY M/V GEO MARINER TOWING TWO MILE LONG CABLE
IN AREA BOUND BY
25-43.5N 051-36.0E, 25-43.5N 051-45.0E,
25-54.0N 051-52.0E, 26-32.0N 051-52.0E,
26-32.0N 051-35.0E, 26-11.5N 051-16.0E.
WIDE BERTH REQUESTED.
2. CANCEL HYDROPAC 2074/03(75), AID RESTORED.

(021020Z DEC 2003)

2096/03(94,97). NORTH PACIFIC. TAIWAN.

1. CONTAINER ADRIFT IN 23-04.6N 122-23.5E AT 020750Z DEC.
2. CANCEL THIS MSG 09 DEC.

(021150Z DEC 2003)

2097/03(75). AUSTRALIA-SOUTHEAST COAST.

1. UNDERWATER CORING OPERATIONS IN PROGRESS
UNTIL FURTHER NOTICE BY M/V MARKAB ALONG
TRACKLINE BETWEEN 38-38S 142-55E AND
39-07S 142-55E. TWO MILE BERTH REQUESTED.
2. CANCEL HYDROPAC 2077/03.

(021920Z DEC 2003)

2098/03(22,83). SOUTH PACIFIC. ICE.

1. LARGE ICEBERGS REPORTED IN:
A. 48-32-06S 119-27-42W.
B. 48-19-36S 118-53-30W.
2. CANCEL THIS MSG 09 DEC.

(022245Z DEC 2003)

2099/03. CANCELED.

2100/03(81). NORTH PACIFIC.

1. DERELICT 120 METER BARGE PENAGA DUNIA 8 ADRIFT
VICINITY 04-47.4N 166-58.7E.
2. CANCEL HYDROPAC 2099/03(75), STATION RESTORED.
3. CANCEL THIS MSG 10 DEC.

(030218Z DEC 2003)

2101/03(63). INDIA-WEST COAST. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 1330Z TO 1600Z DAILY 03 AND 04 DEC
WITHIN 75 MILES OF 08-31.9N 076-52.1E.
2. CANCEL THIS MSG 041700Z DEC.

(030710Z DEC 2003)

2102/03(63). ARABIAN SEA.

1. SEISMIC SURVEY IN PROGRESS UNTIL 20 DEC BY
M/V C-ORION TOWING SIX 5000 METER LONG
CABLES IN AREA BETWEEN
22-38.8N 22-52.8N AND 067-37.8E 067-45.0E.
WIDE BERTH REQUESTED.
2. CANCEL HYDROPAC 2001/03.
3. CANCEL THIS MSG 21 DEC.

(030720Z DEC 2003)

2103/03(63). INDIA-WEST COAST. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 041030Z TO 041230Z DEC
WITHIN 13 MILES OF 22-28.7N 069-04.0E.
2. CANCEL THIS MSG 041330Z DEC.

(030740Z DEC 2003)

SECTION III

NM 51/03

2104/03(63). LAKSHADWEEP ISLANDS.
CHART 63150 (1ST ED).
THINNAKARA ISLET LIGHT 10-56.6N 072-19.0E UNLIT.

(030940Z DEC 2003)

2105/03. CANCELED.

2106/03(73). PAPUA NEW GUINEA-NORTHEAST COAST.
CHART 73631 (4TH ED).
HALL POINT LIGHT 09-02.7S 149-18.3E UNLIT.

(031728Z DEC 2003)

2107/03(73). PAPUA NEW GUINEA-NORTHEAST COAST.
CHART 73631 (4TH ED).
STEWART REEF LIGHT 09-07.9S 149-23.0E UNLIT.

(031732Z DEC 2003)

2108/03(73). PAPUA NEW GUINEA-NORTHEAST COAST.
CHART 73631 (4TH ED).
GREAVES REEF LIGHT 09-10.9S 149-26.5E UNLIT.

(031734Z DEC 2003)

2109/03(73). PAPUA NEW GUINEA-NORTHEAST COAST.
CHART 73631 (4TH ED).
HAM REEF LIGHT 09-12.1S 149-26.2E UNLIT.

(031736Z DEC 2003)

2110/03(73). PAPUA NEW GUINEA-NORTHEAST COAST.
CHART 73631 (4TH ED).
VEALE REEF LIGHT 09-12S 149-28E UNLIT.

(031737Z DEC 2003)

2111/03(63). NORTHERN ARABIAN SEA.
CHART 63040 (2ND ED).
FOUR UNEXPLODED ORDNANCE VICINITY 24-58-18N 063-29-30E.

(031759Z DEC 2003)

2112/03 thru 2114/03. CANCELED.

2115/03(73). PAPUA NEW GUINEA-NORTHEAST COAST.
CHART 73631 (4TH ED).
SPEAR ISLAND LIGHT 08-59.6S 149-08.3E UNLIT.

(040920Z DEC 2003)

2116/03(75). AUSTRALIA-SOUTH COAST.
SEISMIC SURVEY IN PROGRESS UNTIL FURTHER NOTICE BY
M/V ORIENT EXPLORER TOWING THREE MILE LONG CABLE
IN AREA BETWEEN 35-10S 36-15S AND 135-10E 135-48E.
FIVE BERTH REQUESTED.

(041120Z DEC 2003)

MARAD ADVISORIES

MARAD ADVISORIES rapidly disseminate information on government policy, danger and safety issues pertaining to vessel operations and other timely maritime matters. They are periodically issued by the U.S. Maritime Administration (MARAD) to vessel masters, operators, and other U.S. maritime interests.

The text of all in-force MARAD ADVISORIES may be obtained by accessing the NGA Maritime Safety Information website (http://164.214.12.145/warn/warn_j_query.html), by referring to Section I (paragraph 50) of US Notice to Mariners 1/03 for those in-force as of 19 December 2002, or by contacting the Maritime Administration Office of Ship Operations, Code MAR-613, Room 2123, 400 Seventh Street S.W., Washington DC 20590, Telephone (202) 366-5735, FAX (202) 366-3954, TLX II 710-822-9426 (MARAD DOT WSH).

MARAD ADVISORIES in force 4 December 2003: 00-7, 01-1, 01-7, 02-2, 02-5, 02-7 and 03-4.

SECTION III

SPECIAL WARNINGS

SPECIAL WARNINGS, primarily intended to announce official government proclamations affecting shipping, are broadcast as needed. They are numbered consecutively and further promulgated in the Notice to Mariners.

The text of all in-force SPECIAL WARNINGS may be obtained by accessing the NGA Maritime Safety Information website (http://164.214.12.145/warn/warn_j_query.html) or by referring to Section I (paragraph 7) of US Notice to Mariners 1/03 for those in-force as of 19 December 2002 and in Notice to Mariners 14/03.

SPECIAL WARNINGS in force 4 December 2003: 1, 29, 77, 81, 82, 89, 92, 95, 107, 108, 111, 113, 114, 115, 116, 117, 118, 119, 120 and 121.

NEW EDITION OF SAILING DIRECTIONS

Pub. 145, Sailing Directions (Enroute) Nova Scotia and the Saint Lawrence, Ninth Edition, 2003, is ready for issue. This publication has been corrected to 9 August 2003, including Notice to Mariners No. 32 of 2003.

This edition is produced by NGA in digital format only, available on CD-ROM and/or electronic access through the World Wide Web.

NGA nautical publications as produced in digital format are more robust, expansive and customer friendly than the printed versions. Customers can expect access to data links between publication data sets, video streams, links to other websites, timely up-to-date information and current state of the art graphics, photos and commercial imagery.

Digital Nautical publications will be updated using a binary executable called “Publication Data Update (PDU)”. PDU updates are cumulative or sequential ensuring customers will not miss any changes and may be accessed on the Maritime Safety Information Division website (<http://pollux.nss.nga.mil>).

Customers requiring paper versions of NGA products may purchase them through the U.S. Government Printing Office (GPO) Superintendent of Documents. The NGA point of contact for this effort is Mr. Adam Veracka (301)227-3173.

NEW EDITION OF COAST PILOT

U.S. Coast Pilot 5, Atlantic Coast: Gulf of Mexico, Puerto Rico and Virgin Islands, Thirty-first Edition, 2004, is ready for issue and may be obtained from:

Federal Aviation Administration
National Aeronautical Charting Office
Distribution Division, AVN-530
6303 Ivy Lane, Suite 400
Greenbelt, MD 20770-6325

and authorized agents of the National Ocean Service. Price \$26.00.

The 2004 Edition cancels the preceding 2003 Edition.

All corrections to the previous edition issued in Notice to Mariners are incorporated in this edition.

Mariners are encouraged to use the convenient “RECORD OF CHANGES” form on Page V of this book. All Coast Pilot changes published in the U.S. Coast Guard Local Notice to Mariners, National Geospatial-Intelligence Agency Notice to Mariners, and on the Internet at <http://critcorr.ncd.noaa.gov/> are serially numbered (i.e., Change No. 1, Change No. 2, etc.) to assist you in tracking the changes.

MARINE INFORMATION REPORT AND SUGGESTION SHEET INSTRUCTIONS

We value your suggestions to improve our products. The Marine Information Report and Suggestion Sheet is provided for users to submit corrective information. Please be complete and accurate in your description/suggestion and include the information as detailed below:

Observer: name(s) of person(s) making observation and rank, rate or title.

Ship/Organization: name of vessel or organization.

Address: complete mailing address. Also include telephone number, fax, and/or e-mail address, if available, in case clarification is required.

Date of Observation: day, month and year at which the observation was made.

Time of Observation: local time at which the observation was made.

Latitude/Longitude: exact position of the observation expressed as accurately as possible.

Datum: horizontal datum to which the observed position is referred (e.g. WGS, NAD83, local foreign datum, etc.).

Navigation System: method used to determine the position of the observation (e.g. radar, GPS, Loran, etc.).

Include details about the equipment used, if deemed pertinent.

Verified by Navigator: indicate whether observation was verified by navigator.

Product(s) Affected: product number(s) and/or name(s) to which the observation applies (e.g. Chart 62400, Sailing Directions Pub. 127, etc.).

Edition: edition number and/or year of affected product.

Latest correction applied: the latest Notice to Mariners to which your copy of affected product has been corrected.

Sounding sensor or method used: equipment or method used to collect soundings. When reporting soundings, please provide an annotated echogram, if available, for verification.

Soundings corrected for draft: indicate whether soundings have been corrected for vessel's draft. If not, please include observed draft along with the details of information reported.

Details of Information Reported: use this space to provide details of the observation/suggestion. When referring to a charted feature, please describe it exactly as it appears on the chart. When referring to a publication, please indicate page number(s) and line number(s) or station number(s) as applicable. Use additional sheets as necessary and include diagrams, photocopies of the product(s) involved and/or photographs to describe observations in greater detail. If possible, include the designation, point of contact, telephone number, fax number and/or e-mail address of the local port authority to enable NGA to update our records and obtain additional or later information.

User Feedback: use this space to provide feedback and suggestions for improving NGA products and services.

Please detach, fold and mail the pre-addressed form and include any other relevant material or supporting information.

Reports which present an immediate hazard to navigation should be sent to the nearest NAVAREA Coordinator via coast radio stations. In general, these hazards would include major aids to navigation anomalies, discovery of obstructions or shoals with depths of less than 30 meters, floating dangers to shipping, and any situation deemed critical to safety of life at sea. For further information consult Notice to Mariners No. 1, paragraph 44 (Worldwide Navigational Warnings Service).

Due to the large volume of information received, NGA cannot acknowledge receipt of every report. Some reports containing useful data are filed for use in the compilation of the next edition of the affected product. Others confirm or clarify previously reported information. Echogram traces are digitized and become part of our Bathymetric Database. Acknowledgment is made by inclusion in the Observer's List of the Notice to Mariners (page ii), or in some cases by letter from the Agency involved.

For additional information about various Hydrographic Reports, consult The American Practical Navigator (Chapter 30).

MARINE INFORMATION REPORT AND SUGGESTION SHEET

Observer _____ Ship/Organization _____

Address _____

Email address _____

Date of Observation _____ Time of Observation (Local) _____

Latitude _____ Longitude _____ Datum _____

Navigation System _____ Verified by Navigator: Yes _____ No _____

Product(s) Affected _____ Edition _____

Latest correction applied: N.M. _____

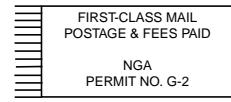
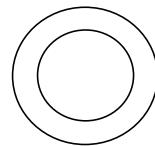
Sounding sensor or method used _____ Sounding(s) corrected for draft: Yes _____ No _____

Details of Information Reported (continue on additional sheets as necessary) _____

User Feedback (continue on additional sheets as necessary)



**MARITIME SAFETY INFORMATION DIVISION
ST D44
NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY
4600 SANGAMORE ROAD
BETHESDA MD 20816-5003**



ARCTIC MARITIME SAFETY INFORMATION REPORT SHEET

Observer _____

Ship/Organization _____

Phone _____ Email Address_____

Describe Hazard (e.g. dredge, buoy, current meter, operations): _____

Depth water column is occupied (e.g. "bottom to surface", "surface to 500m"): _____

Date of Insertion _____ Date of Removal _____

If observed, Date _____ Time (Local) _____

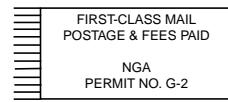
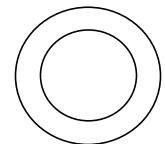
Latitude _____ Longitude _____ Datum _____

Navigation System _____ Verified by Navigator: Yes _____ No _____

Sounding sensor or method used _____

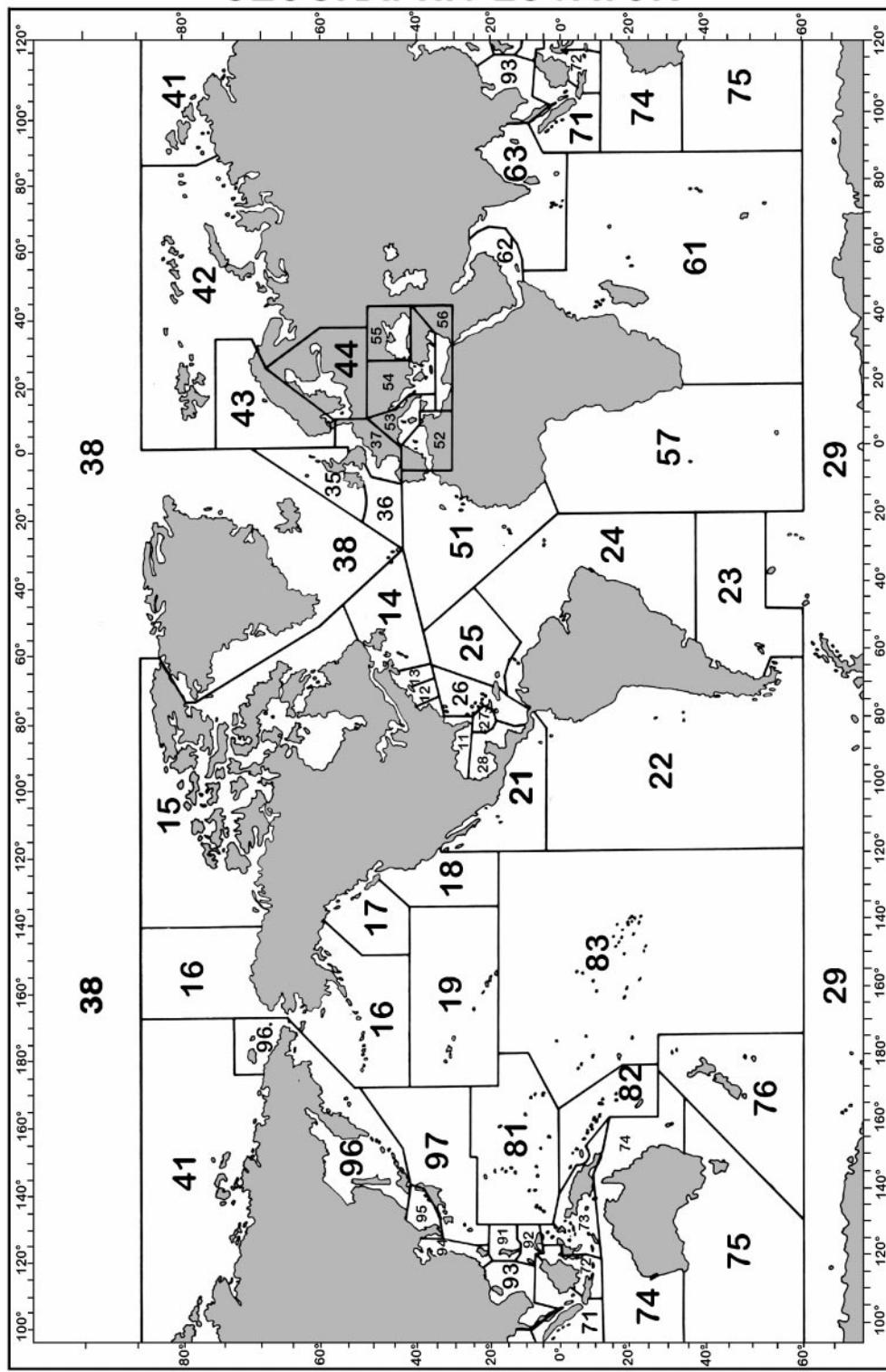
Sounding(s) corrected for draft: Yes _____ No _____

Details of Information Reported (continue on additional sheets as necessary): _____



**MARITIME SAFETY INFORMATION DIVISION
ST D44
NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY
4600 SANGAMORE ROAD
BETHESDA MD 20816-5003**

GEOGRAPHIC LOCATOR



For chart numbering purposes, the world is divided into nine regions, each corresponding to the geographic limits of one of the nine regions in the NGA Catalog of Maps, Charts, and Related Products, Part 2-Hydrographic Products, Volume 1. Each Region is further subdivided into the numbered Subregions in the above graphic. The first two digits of all five-digit chart numbers indicate the geographic subregion to which the chart pertains. Users can locate corrections in this Notice for charts of their immediate interest by determining the two-digit Sub-region number of the pertinent geographic area, and then turning to the page or pages that list the chart numbers beginning with those two digits.

AFTER 5 DAYS RETURN TO

DEFENSE SUPPLY CENTER RICHMOND

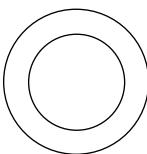
ATTN: JNAH

8000 JEFFERSON DAVIS HIGHWAY
RICHMOND, VIRGINIA 23297-5338

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TIME-DATED**



**NOTICE TO
MARINERS**

PLEASE EXPEDITE DELIVERY